Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT BRANCH ASH PONDS B, C, & D

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CERTIFICATION STATEMENT

This *2025 Annual Groundwater Monitoring and Corrective Action Report, Plant Branch Ash Ponds B, C, & D* has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



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July 31, 2025

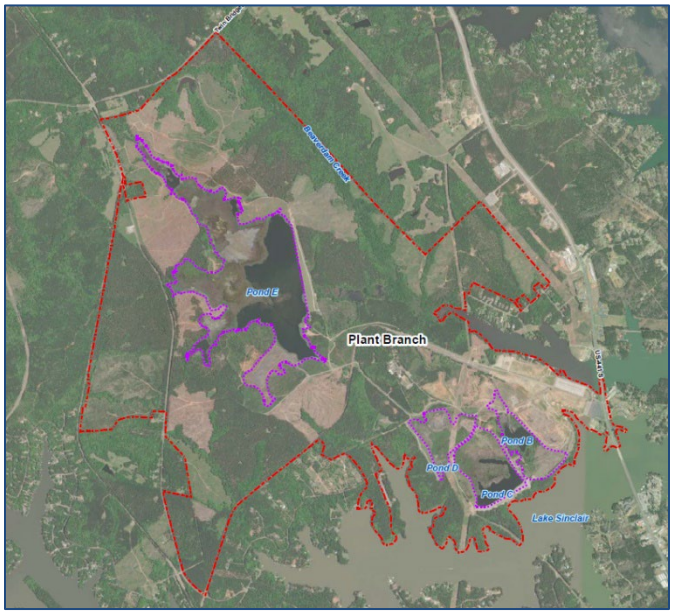
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SUMMARY

This summary of the *2025 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period of July 2024 through June 2025 (referred herein as the "annual reporting period") at the Georgia Power Company (Georgia Power) Plant Branch Ash Ponds B, C, and D (AP-BCD) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, and by reference, Part A, Section 6[1] of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Branch is located at 1100 Milledgeville Road, approximately 8 miles north of Milledgeville in Putnam County, Georgia. Plant Branch formerly operated as a coal-fired electric generating facility, until its decommissioning in July 2015, at which point it ceased producing electricity. CCR materials resulting from power generation were historically transferred and stored at five ash ponds (AP-) (i.e., A, B, C, D, and E). Ash Pond A was taken out of service in the late 1960s and was closed in April 2016. Ash Ponds B, C, D, and E are inactive, and will be closed by removal and relocation of its stored CCR to a fully lined and permitted landfill located on the plant property. As required in the CCR Rule, this Annual Report describes the status of the groundwater monitoring program, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and presents projected key activities for the upcoming year for AP-BCD. The other CCR unit (AP-E) at Plant Branch is reported separately.



Plant Branch and the Site

[1] 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

Groundwater at the Site is monitored using a comprehensive well network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between 2016 and 2018. Based on groundwater conditions at the Site, an assessment monitoring program was established on November 13, 2019, and the Site entered into an assessment of corrective measures on July 9, 2020. During the annual reporting period, the Site remained in assessment monitoring as corrective measures are being evaluated.

Site groundwater elevation measurements were recorded at monitoring wells and piezometers prior to each semiannual assessment monitoring event. The elevation data were used to confirm the groundwater flow direction, and to confirm that the groundwater monitoring well network for the CCR units remains sufficient to monitor groundwater downgradient of the unit.

During this annual reporting period, the semiannual assessment monitoring events for AP-BCD were conducted by Atlantic Coast Consulting (ACC) in August 2024 and February 2025. In order to meet the requirements of GA EPD Rule 391-3-4-.10(6) and § 257.95 (b) and (d)(1) of the CCR Rule, these semiannual assessment monitoring events included sampling and analysis of all Appendix III and Appendix IV constituents. Groundwater samples were submitted to GEL Laboratories, LLC, for analysis. Surface water samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results from these sampling events were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] and Appendix IV[3] constituents in wells listed in the tables below.

Appendix III Parameter	August 2024	February 2025
Boron	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-52I, BRGWC-44	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-47, BRGWC-52I
Calcium	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I, BRGWC-44	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-45, BRGWC-47, BRGWC-52I

[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

Chloride	BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-52I, BRGWC-44	BRGWC-25I, BRGWC-29I, BRGWC-44, BRGWC-45, BRGWC-52I,
pH (lower limit)	BRGWC-29I, BRGWC-47	BRGWC-27I, BRGWC-29I
Sulfate	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I
Total Dissolved Solids (TDS)	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I
Appendix IV Parameter	**August 2024**	**February 2025**
Cobalt	PZ-63I[4]	PZ-63I[4]
Selenium	BRGWC-32S	BRGWC-32S, PZ-75I

Prior to this annual reporting period, an alternate source demonstration (ASD) was prepared and initially submitted to GA EPD on February 28, 2024, with a revision submitted on July 5, 2024, (Geosyntec, 2024b) and a supplemental ASD workplan submitted on November 15, 2024 (Georgia Power, 2024). This ASD addresses the beryllium, cadmium, cobalt, and lithium statistically significant levels (SSLs) reported in BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I. This ASD report satisfies the requirements of GA EPD Rule 391-3-4-.10(6) and § 257.95 of the CCR Rule, for compliance with groundwater monitoring requirements for assessment monitoring at AP-B. The ASD was approved by GA EPD on December 30, 2024 (GA EPD, 2024). Revisions to the CCR groundwater monitoring network in the vicinity of AP-B are described in this *Annual Groundwater Monitoring and Corrective Action Report.*

Based on a review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from July 2024 through June 2025, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power's CCR Rule Compliance website and provided to GA EPD semiannually. In lieu of a *Remedy Selection and Design Progress Report,* a *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure,

[4] SSL of cobalt in PZ-63I was included in the approved ASD.

or measures, for AP-D was submitted to GA EPD on February 28, 2025. In the interim of GA EPD's review of the *Draft Remedy Selection Report,* the state agency issued a letter on July 22, 2025, stating their support for Georgia Power to initiate a pump test pilot study near BRGWC-32S at AP-E to facilitate further remedy design. Georgia Power will submit a workplan to GA EPD outlining the design and implementation prior to initiating the pilot study.

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LIST OF ACRONYMS

ACC	Atlantic Coast Consulting
ACM	Assessment of Corrective Measures
AP	ash pond
ASD	alternate source demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
EDR	Environmental Data Resources
FCPA	Former Coal Pile Area
ft/day	feet per day
ft/ft	feet per foot
GA EPD	Georgia Environmental Protection Division
GCSM	geochemical conceptual site model
GEL Laboratories	GEL Laboratories, LLC.
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
HAR	Hydrogeologic Assessment Report
HRSC	high-resolution site characterization
K_h	horizontal hydraulic conductivity
mg/L	milligram per liter
MNA	monitored natural attenuation
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric turbidity units
ORP	oxidation-reduction potential
PDI	pre-design investigation
PL	prediction limit
PWR	partially weathered rock
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
TDS	total dissolved solids
TWR	transitionally weathered rock
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance

USEPA	United States Environmental Protection Agency
VRP	voluntary remediation program

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2025 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Branch (Site) Ash Ponds B, C, and D (AP-BCD) for the reporting period of July 2024 through June 2025 (referred to herein as the "annual reporting period").

Groundwater monitoring and reporting for AP-BCD are performed in accordance with the monitoring requirements of the GA EPD Rules for Solid Waste Management 391-3-4-.10(6), but also in accordance with the CCR Rule, specifically § 257.90 through § 257.95. This report documents the activities completed to establish the groundwater monitoring program in accordance with GA EPD Rule 391-3-4-.10(6)(a). To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the CCR Rule. For ease of reference, the CCR Rule regulations are cited within this report, in lieu of citing both sets of regulations.

A CCR Unit Solid Waste Handling Permit application for AP-BCD was submitted to GA EPD in November 2018 and is under review.

Due to statistically significant increases (SSIs) of Appendix III parameters identified in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019), Georgia Power initiated an assessment monitoring program for AP-BCD on November 13, 2019. Statistically significant levels (SSLs) of Appendix IV parameters were identified during the initial assessment monitoring event. Georgia Power then initiated an assessment of corrective measures (ACM) program on July 9, 2020. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-BCD in accordance with the assessment monitoring program established for the unit in 2019, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the CCR Rule.

SSLs of cadmium, cobalt, beryllium, and lithium in the vicinity of AP-B have been documented in the annual and semiannual groundwater monitoring and corrective action reports since the initiation of the assessment monitoring program. These SSLs are attributed to the former coal pile instead of AP-B as detailed in an ASD for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I submitted on July 5, 2024

(Geosyntec, 2024b). On November 15, 2024, Georgia Power submitted a supplemental ASD workplan to GA EPD to support ongoing monitoring adjacent to AP-B and downgradient of the former coal pile, also referred to as the Former Coal Pile Area or FCPA (Georgia Power, 2024). Following submittal of the workplan, the ASD was conditionally approved by GA EPD on December 30, 2024 (GA EPD, 2024). In accordance with the supplemental ASD workplan, PZ-63I was converted to a detection monitoring well and two additional detection monitoring wells (PZ-80 and PZ-81) were installed. Per approval of the ASD, these additional detection monitoring wells will be used to evaluate the cobalt trends to determine if they need to be added into the AP-BCD remedy selection process as part of the 5-year permit review. A summary of the ASD is presented in Section 2.

Downgradient of AP-D, SSLs of selenium have been identified in BRGWC-32S and PZ-75I. A *Draft Remedy Selection Report,* which summarizes the evaluation and proposed selection of a corrective measure, or measures, for the selenium SSL at AP-D was submitted separately to GA EPD on February 28, 2025 (Geosyntec, 2025). In the interim of GA EPD's review of the *Draft Remedy Selection Report,* the state agency issued a letter on July 22, 2025, stating their support for Georgia Power to initiate a pump test pilot study near BRGWC-32S at AP-D to facilitate further remedy design. Georgia Power will submit a workplan to GA EPD outlining the design and implementation prior to initiating the pilot study.

1.1 Site Description and Background

Plant Branch is located in Putnam County, Georgia, approximately 8 miles north of Milledgeville. The property occupies approximately 3,200 acres and is bordered on the south and east by Lake Sinclair and by sparsely populated, forested, rural land on the north and west. Lake Sinclair is an approximately 15,330-acre hydroelectric reservoir that was created in 1953 by the impoundment of the Oconee River. Ash ponds B, C, and D (AP-BCD) are located on the southeast corner of the Plant surrounded by Lake Sinclair on the south, rural land on the north and west, and the former coal pile and Ash Pond A on the east (**Figure 1**). The physical address of the Site is 1100 Milledgeville Road, Milledgeville, Georgia, 31024.

The Site formerly operated as a coal-fired power plant that commenced power generation in 1965. Over the course of power generation at the facility, five CCR surface impoundments (ash ponds), identified as Ash Ponds A, B, C, D, and E, were utilized. The location of each ash pond is shown on **Figure 1**. The former AP-A, the first ash pond constructed at the facility, was taken out of service in the late 1960s and was closed in

April 2016 by the removal and relocation of its stored CCR to AP-E. AP-BCD and AP-E are currently not active and will be closed by removal, specifically, by relocation of the CCR stored in those ash ponds to a new, permitted, on-site CCR landfill.

This report documents the groundwater monitoring program at the multi-unit AP-BCD. As previously noted, groundwater monitoring activities completed at Plant Branch's AP-E are reported separately.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-BCD as described in the *Hydrogeologic Assessment Report Revision 01 – AP-BCD* (HAR Rev 01) submitted to GA EPD in November 2020 to provide information regarding the hydrogeologic conditions and the groundwater monitoring well network at the Site (Geosyntec, 2020).

1.2.1 Regional and Site Geology

The Site is located within the Piedmont Physiographic Province of central Georgia, which is characterized by gently rolling hills and narrow valleys, with locally pronounced linear ridges. Generally, the property slopes gently east and south toward Beaverdam Creek and Lake Sinclair. The metamorphic and igneous rocks that underlie the area have been subjected to physical and chemical weathering which has created a landscape dissected by creeks and streams. Bedrock is typically overlain by a variably thick blanket of residual soils and saprolite. The overall depth of weathering in the Piedmont/Blue Ridge is generally about 20 to 60 feet; however, the depth of weathering along discontinuities and/or very mafic rock units may extend to depths greater than 100 feet. Because of such variations in rock types and structure, the depth of weathering can vary significantly over short horizontal distances. The bedrock underlying the saprolite is fine- to medium-grained, poorly jointed biotite-quartz-feldspar gneiss.

Based on our review of available data, micaceous, locally saprolitic soils, consisting primarily of clay, silty clay, silt, and sandy clay occur as a variably thick blanket of residuum overlying bedrock across most of the Site. The thickness of the residual soil encountered in AP-BCD borings is variable, ranging from approximately 10 feet to as much as 75 feet. Between the residual soil/saprolite zone and the underlying bedrock there is a zone of transitionally weathered rock (TWR) or partially weathered rock (PWR), as defined by standard penetration test data, where available. Material overlying

the top of rock surface, including residual soil/saprolite and TWR/PWR, is collectively referred to as overburden.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at the Site is an unconfined regional groundwater aquifer that occurs primarily in the saprolite, PWR, and fractured bedrock. While the aquifer characteristics of each unit may vary, the groundwater is interpreted to be interconnected between these units, and they effectively act as one unconfined aquifer. Generally, the water table surface at the Site is a subdued reflection of topography, with groundwater generally flowing east, west, and south. Downward hydraulic gradients dominate in the topographically high areas, while upward gradients are observed in topographic lows. Recharge to the fractured bedrock aquifer system comes primarily from precipitation that is stored in the overburden and slowly infiltrates to the bedrock through areas of enhanced permeability. Interconnected fractures are the primary conduit for groundwater flow through bedrock since the rock lacks primary porosity. Groundwater flow in the uppermost portion of the aquifer is expected to be primarily in the regolith and transition zone (i.e., PWR and highly fractured bedrock), with less flow within the significantly lower permeability fractured bedrock.

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-BCD that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the unit (i.e., background conditions) and passing the waste boundary of the unit. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions.

Based on the Site hydrogeology, the monitoring well system is designed to monitor groundwater flow in the overburden, the transition-zone, and the upper bedrock as a single interconnected aquifer system. Wells suffixed with an “S” are installed in overburden (saprolitic soil), an “I” indicates TWR/PWR and the upper fractured mantle of bedrock (transition zone), and “D” indicates a screened zone in the deeper bedrock. Construction details for the wells and piezometers associated with evaluating groundwater flow and/or quality conditions in vicinity of AP-BCD are listed in **Table 1**. The locations of the detection monitoring wells and assessment monitoring wells are shown on **Figure 2**. Pursuant to § 257.195(g)(1)(iv), assessment monitoring wells will

continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers is used to gauge water levels to define groundwater flow direction and gradients and to understand potential changes related to seasonal fluctuations or site activities. The piezometers may be sampled as needed to support the AP-BCD ACM program. The piezometer locations are shown on the potentiometric surface maps generated for this annual reporting period (**Figures 3** and **4**, discussed in detail in Section 3).

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during this reporting period and discusses any change in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

Following approval of the ASD addressing SSLs in the vicinity of AP-B (Geosyntec, 2024b), the following wells were removed from the monitoring network: detection well BRGWC-50; assessment wells PZ-50D, PZ-51I, PZ51D, PZ-58I, PZ-60I, PZ-61I, and PZ-64I; and piezometers PZ-43, PZ-51S, PZ-57I, PZ-59I, PZ-62I, PZ-65I, PZ-66I, and PZ-67. These locations will no longer be included in semiannual assessment monitoring. Additionally, with ASD approval, the groundwater monitoring network was updated to reclassify PZ-44 as a detection monitoring well (now designated BRGWC-44), and to include it as a permanent monitoring location in the AP-BCD detection monitoring network (**Table 1**). Per the supplemental ASD workplan provided to GA EPD on November 15, 2024 (Georgia Power, 2024), existing piezometer PZ-63I, along with two newly installed piezometers (PZ-80 and PZ-81) at the AP-B boundary in March 2025, have been incorporated into the detection monitoring network.

The well installation report that includes detailed boring and well construction logs for the installation of PZ-80 and PZ-81 during this annual reporting period is provided in **Appendix A** and was also submitted to GA EPD under separate cover.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2024 and February 2025, the networks were inspected and no corrective actions were required, as documented in **Appendix B**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(3), an assessment monitoring program was initiated for AP-BCD based on SSIs of Appendix III constituents documented in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019). A notice of assessment monitoring was placed in the operating record on November 13, 2019. An ACM program

was initiated on July 9, 2020. Georgia Power completed an ACM report (Golder, 2020) for AP-BCD at Plant Branch on December 4, 2020.

In accordance with § 257.95(g)(3)(ii), an ASD was prepared and submitted to GA EPD on February 28, 2024, with a revision submitted on July 5, 2024 (Geosyntec, 2024b) and a supplemental ASD workplan on November 15, 2024 (Georgia Power, 2024). This ASD addresses the beryllium, cadmium, cobalt, and/or lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I (Geosyntec, 2024b and c). The ASD was approved by GA EPD on December 30, 2024 (GA EPD, 2024), and resulted in the removal of wells BRGWC-50, PZ-50D, PZ-51I, PZ51D, PZ-58I, PZ-60I, PZ61I, and PZ-64I from the detection and assessment monitoring network. Per the supplemental ASD workplan (Georgia Power, 2024), PZ-63I was not removed from the network and will continue to be monitored with two new piezometers (PZ-80 and PZ-81) to evaluate impacts from the former coal pile. These three piezometers will be sampled during semiannual groundwater monitoring events to monitor groundwater quality in immediate proximity to AP-B shown to be affected by impacts from the former coal pile. Per approval of the ASD, PZ-63I, PZ-80, and PZ-81 will be used to evaluate the cobalt trends and determine whether these wells should be added into the AP-BCD remedy selection process as a part of the 5-year permit review.

A *Draft Remedy Selection Report,* which summarizes the evaluation and proposed selection of a corrective measure, or measures, for the selenium SSL identified in BRGWC-32S in the vicinity of AP-D was submitted on February 28, 2025 (Geosyntec, 2025). In accordance with § 257.96(b), groundwater continues to be monitored at AP-BCD under the assessment monitoring program while the ACM phase is implemented.

In support of the ongoing groundwater compliance monitoring program, semiannual assessment monitoring events were conducted in August 2024 and February 2025. The wells sampled during these events and the dates associated with the events are summarized in **Table 2**. The collected groundwater samples were analyzed for the complete list of Appendix III and Appendix IV constituents.

Field data, field calibration forms, well inspection logs, laboratory analytical results, and data validation reports associated with the sampling events are provided in **Appendix C**. Details of the events and analytical results are discussed in Section 3.

2.3 Additional Sampling and Surface Water Sampling

Supplemental sampling was conducted during the reporting period in support of the ACM program and in continuing to evaluate the nature and extent of target constituents showing SSLs in groundwater in the vicinity of AP-BCD. Supplemental groundwater samples were collected from the monitoring well network during the August 2024 and February 2025 assessment monitoring events and were analyzed for major cations (calcium, magnesium, potassium, and sodium), major anions (chloride, nitrate, sulfate), and alkalinity (i.e., bicarbonate, carbonate, total) as well as iron, manganese, and sulfide. The laboratory reports associated with the data are provided in **Appendix C**.

Due to the presence of surface water features downgradient of AP-BCD, Georgia Power proactively collected surface water samples from discrete (surface, middle, and/or bottom) depths at eight locations in Lake Sinclair on August 28, 2024, and February 26, 2025, as shown on **Figure 2**.

Water samples were collected from four locations downgradient of AP-B (LR+8, LR+8A, LR+9, and LR+9A) and were analyzed for Appendix III and cobalt, in addition to cations and anions (sodium, magnesium, potassium, and alkalinity).

Two locations downgradient of AP-D (LS+3, LS+3A), surface water samples were collected from discrete depths (surface and middle) and analyzed for Appendix III and selenium, in addition to cations and anions. These locations are used to delineate selenium concentrations immediately downgradient of the AP-D wells identified to have SSLs of selenium (presented in Section 4). The remaining two surface water sampling locations (LR-1, LR+10) are considered to represent more general lake conditions.

Surface water samples are collected in accordance with USEPA Region 4 Science and Ecosystem Support Division Operating Procedures for Surface Water Sampling SESDPROC 201-R4 (USEPA, 2016). The laboratory reports associated with the August 28, 2024, and February 26, 2025, surface water sampling events are provided in **Appendix C**. Following approval of the voluntary remediation program (VRP) application for the Formal Coal Pile Area, surface water sampling near AP-B in support of the CCR Program will no longer be performed. Georgia Power will continue collecting the surface water samples semiannually as needed to support the nature and extent evaluation at AP-D.

2.4 Assessment of Corrective Measures

To support remedial design and pilot study planning, a pre-design investigation (PDI) including high-resolution site characterization (HRSC) is planned to characterize and refine the selenium plume extent proximal to BRGWC-32S near AP-D. Currently, HRSC activities are planned to include the installation and sampling of four additional monitoring wells. Data collected during the HRSC will inform future pilot studies and support remedy selection activities. A summary of activities completed to advance the corrective action design will be included in subsequent semiannual groundwater monitoring and corrective action reports.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the assessment monitoring program conducted at AP-BCD during this annual reporting period.

3.1 Groundwater Elevation Measurement

Prior to each semiannual assessment monitoring event, a synoptic round of depth-to-groundwater-level measurements was recorded from all the wells and piezometers (including those associated with AP-E and the proposed new CCR landfill area) and used to calculate the corresponding groundwater elevations. The calculated groundwater elevations obtained in August 2024 and February 2025 at AP-BCD and AP-E are presented in **Table 3**. The surface water elevations for Lake Sinclair are obtained from Georgia Power.

The groundwater and surface water elevation data were used to prepare site-wide potentiometric surface maps for the August 2024 and February 2025 events, which are presented on **Figures 3** and **4**, respectively. The general direction of groundwater flow across AP-BCD is towards Lake Sinclair (south-southeast). This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer at AP-BCD were calculated using the groundwater elevation data from the August 2024 and February 2025 events. Horizontal hydraulic gradients were calculated along the flow paths between BRGWA-23S and BRGWC-30I proximal to AP-D, and between BRGWC-47 and BRGWC-44 in vicinity of AP-B and AP-C. The supporting calculations are presented in **Table 4.** The calculated average hydraulic gradients associated with these well pairs for the annual reporting period are 0.028 feet per foot (ft/ft) and 0.012 ft/ft, respectively. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**.

Groundwater flow rates at the Site were calculated based on the above hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon.

Horizontal hydraulic conductivity (K_h) values used in flow calculations range from 1.45 to 2.80 feet per day (ft/day) and were based on slug test data presented in the 2020 *Hydrogeologic Assessment Report Revision 01* (Geosyntec, 2020) and collected subsequently. The average observed K_h estimates from each lithologic unit in which the well pairs were screened was used to produce a representative estimate of groundwater flow velocity. An estimated effective porosity of 0.20 is used to represent average conditions at AP-BCD which was derived based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996). With these variables determined, and accounting for the averaged hydraulic gradient calculated between well pairs for the August 2024 and February 2025 events, horizontal flow velocities were calculated as below.

The approximate horizontal flow velocities associated with AP-BCD were calculated using the following derivative of Darcy's Law. The supporting calculations for the August 2024 and February 2025 semiannual events are presented in **Table 4**.

$$V = linear\ velocity = \frac{K_h * i}{n_e}$$

where:

V = Groundwater flow velocity $\left(\frac{feet}{day}\right)$

K_h = Horizontal Hydraulic Conductivity $\left(\frac{feet}{day}\right)$

i = Horizontal hydraulic gradient $\left(\frac{feet}{foot}\right) = \frac{h_1 - h_2}{L}$

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average groundwater flow velocity at the Site for this annual reporting period is approximately 0.24 ft/day across AP-BCD. The observed groundwater flow velocities are consistent with expected velocities in the Georgia Piedmont, are consistent with historical observations, and confirm the groundwater monitoring system as properly located to monitor the uppermost aquifer for AP-BCD at Plant Branch.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An AquaTROLL® (In-Situ field instrument) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was monitored using a LaMotte 2020we (or similar) portable turbidity meter. Groundwater samples were collected once the following stabilization criteria were met:

- pH ± 0.1 Standard Units (s.u.).
- Conductivity ± 5%.
- ±0.2 milligrams per liter (mg/L) or ±10% (whichever is greater) for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to GEL Laboratories, LLC (GEL Laboratories) in Charleston, South Carolina, following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the annual reporting period are provided in **Appendix C**.

During the August 2024 and February 2025 events, low yielding wells were encountered that purged dry and required sample collection the following day due to low recharge rates in accordance with the field sampling plan for low yielding wells. Assessment well

PZ-68D purged dry during both the August 2024 and February 2025 events. Former coal pile area piezometer PZ-50D purged dry during the August 2024 event.

3.4 Laboratory Analyses

Groundwater laboratory analyses were performed by GEL Laboratories, and surface water analyses were performed by Pace Analytical Services, LLC, (Peachtree Corners, Georgia), both of which are accredited by the National Environmental Laboratory Accreditation Program (NELAP). GEL Laboratories and Pace Analytical Services maintain a NELAP certification for the Appendix III and Appendix IV constituents and the geochemical parameters analyzed for this project. Analytical methods used for sample analysis are listed in the analytical laboratory reports included in **Appendix C**.

The groundwater results from the annual reporting period are summarized in **Tables 5a** and **5b**. Surface water analytical results from the August 2024 and February 2025 monitoring events are summarized in **Table 6**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during each sampling event at the minimum rate of one QA/QC sample per 10 groundwater samples and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in appropriately preserved laboratory-provided sample containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by GEL Laboratories.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The validated data are considered usable for meeting project objectives. The associated data validation reports are provided in **Appendix C**, along with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established Groundwater Protection Standards (GWPS) for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the August 2024 and February 2025 assessment monitoring events. The data were analyzed by Groundwater Stats Consulting (GSC); the reports generated from the analyses are provided in **Appendix D**.

4.1 Statistical Methods

The selected statistical method for AP-BCD was developed in accordance with § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009). The Sanitas™ Groundwater statistical software was used to perform the statistical analyses. Sanitas™ is a decision-support software package, which incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance.

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in **Appendix D** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 7**.

4.1.1 Appendix III Statistical Methods

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Upgradient well data were pooled to establish a background limit for an individual constituent, and the most recent sample from each downgradient well was compared to the statistical limit for each parameter to determine if concentrations exceeded background levels. The most recent sample from each downgradient well is compared to the background limit to assess whether there are SSIs. An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent

resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared. The Sen's Slope/Mann Kendall trend test was used to statistically evaluate concentration levels over time and determine if concentrations are increasing, decreasing, or stabilizing.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection and assessment monitoring well with a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to previous non-routine sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified. GWPS established for statistical comparison of Appendix IV constituents and are presented in **Table 7**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analysis of August 2024 and February 2025 data presented in **Appendix D**, groundwater conditions have not returned to background and assessment monitoring should continue pursuant to § 257.95(f). A detailed list of the noted exceedances is provided in **Appendix D**.

Based on the statistical analysis of Appendix IV constituents, the following constituents exceeded the corresponding GWPS for the assessment monitoring event:

4.2.1 August 2024 Data

- Cobalt: PZ-63I[5]
- Selenium: BRGWC-32S

[5] SSL of cobalt in PZ-63I was included in the approved ASD.

4.2.2 February 2025 Data

- Cobalt: PZ-63I[4]
- Selenium: BRGWC-32S and PZ-75I

With the approval of the ASD report (GA EPD, 2024) for SSLs identified in the vicinity of AP-B, no further statistical analyses were performed for the beryllium, cadmium, cobalt, and lithium SSLs previously reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, and PZ-64I. PZ-63I was retained as part of semiannual groundwater monitoring and reporting to monitor groundwater quality in the immediate proximity of AP-B shown to be affected by impacts from the former coal pile. Per approval of the ASD, PZ-63I, along with PZ-80 and PZ-81, will be used to evaluate the cobalt trends to determine if these three wells need to be added into the AP-BCD remedy selection process at the 5-year permit review.

The selenium SSLs identified in BRGWC-32S and PZ-75I were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). A statistically significant increasing trend of selenium was identified in BRGWC-32S during this annual reporting period. No statistically significant trend was identified for selenium in PZ-75I.

4.2.3 Summary of Statistical Analyses

The previous SSLs identified for the annual reporting period have remained generally consistent with the previous reporting period. In addition, a selenium SSL was identified in PZ-75I downgradient of AP-D.

5.0 NATURE AND EXTENT

5.1 Selenium

Delineation activities during the current annual reporting period focused on defining the nature and extent of selenium in groundwater downgradient of AP-D. Results from the delineation activities indicate that selenium is horizontally and vertically delineated below the site-specific GWPS; however, evaluation of the side-gradient extent of selenium is ongoing to support the corrective action design. Delineation is determined by confidence intervals (statistical analysis) prepared for the assessment well discussed below. Results of the statistical analyses are provided in **Appendix D**.

The nature and extent of selenium is delineated below the GPWS as follows:

- Selenium in BRGWC-32S: Horizontally delineated downgradient by surface water locations LS+3 and LS+3A and vertically delineated by assessment well PZ-68D.

- Selenium in PZ-75I: Horizontally delineated downgradient by surface water locations LS+3 and LS+3A. Vertical delineation is currently ongoing.

Specific details regarding the delineation activities at AP-D are discussed in the *Draft Remedy Selection Report* that was submitted separately to GA EPD on February 28, 2025. The groundwater data from the August 2024 and February 2025 semiannual assessment monitoring events were used to generate the selenium iso-concentration maps presented on **Figures 5** and **6**, respectively.

5.2 Beryllium, Cadmium, Cobalt, and Lithium Alternate Source Demonstration

An ASD was prepared and initially submitted to GA EPD on February 28, 2024, with a revision submitted on July 5, 2024 (Geosyntec, 2024b), and a supplemental ASD workplan submitted on November 15, 2024 (Georgia Power, 2024). This ASD addresses the beryllium, cadmium, cobalt, and lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I and attributes the SSLs to migration from the former coal pile instead of AP-B. The ASD was approved by GA EPD on December 30, 2024 (GA EPD, 2024).

As a result of the approval of the ASD and the supplemental ASD workplan, the SSLs of beryllium, cadmium, cobalt, and lithium in the vicinity of AP-B are not further considered for remedy selection in the *Draft Remedy Selection Report* that was submitted separately

to GA EPD on February 28, 2025. The CCR groundwater monitoring network in the vicinity of AP-B has been revised as described in Section 2. The SSLs of beryllium, cadmium, cobalt, and lithium identified in detection and assessment monitoring wells BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, and PZ-64I have been transitioned to the VRP with the state of Georgia and will no longer be monitored under the CCR regulatory framework.

PZ-63I (along with new piezometers PZ-80 and PZ-81) will be retained as part of semiannual groundwater monitoring and reporting to monitor groundwater quality in the immediate proximity of AP-B shown to be affected by impacts from the former coal pile. Per approval of the ASD, PZ-63I, PZ-80, and PZ-81 will be used to evaluate the cobalt trends to determine if they need to be added into the AP-BCD remedy selection process at the 5-year permit review.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-BCD in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSL concentrations of selenium in BRGWC-32S and PZ-75I. Pursuant to § 257.195(g)(1)(iv), the additional assessment wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

A *Draft Remedy Selection Repor*t for AP-D was submitted to GA EPD on February 28, 2025, in lieu of the *Semiannual Remedy Selection and Design Progress Report.* The *Draft Remedy Selection Report* was submitted under separate cover to GA EPD and included a comprehensive description and compilation of the following content and documents:

i) An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation;

ii) The current groundwater geochemical conceptual site model (GCSM) applicable to evaluating groundwater corrective measures proposed in the ACM Report (Golder, 2020);

iii) A risk evaluation; and

iv) A transport modeling investigation to assess the feasibility of the corrective action measures under consideration.

The *Draft Remedy Selection Report* presents hydraulic containment ("Pump and Treat") as the proposed groundwater remedy to address selenium concentrations in excess of the GWPS downgradient of AP-D, with a potential transition from this remedy to a geochemical injection remedy and/or monitored natural attenuation (MNA) to address residual selenium in a reduced plume footprint, if achieved.

In the interim of GA EPD's review of the *Draft Remedy Selection Report*, PDIs and pilot testing are being planned to complete a detailed delineation of the selenium plume downgradient of AP-D and assess requirements needed to design an extraction system

capable of achieving hydraulic capture as part of the "Pump and Treat" proposed remedy. Should a transition to a geochemical injection remedy become favorable, further treatability studies will be evaluated at that time.

On July 22, 2025, GA EPD issued a letter supporting Georgia Power's initiation of a pilot study to facilitate further remedy design for the selenium near BRGWC-32S. Georgia Power is planning a PDI to characterize and refine the extent of the selenium plume proximal to BRGWC-32S. Data collected during the PDI will inform a pump test pilot study to evaluate and support remedy selection. Georgia Power will submit a pilot study workplan to GA EPD that outlines the design and implementation of this pilot study to support corrective action design. Updates concerning the pilot study and any additional data to support corrective action design will be reported to GA EPD as brief summaries included as part of semiannual groundwater monitoring and corrective action reporting.

6.3 Annual Potable Well Survey

An updated potable well survey of potential groundwater wells within a two-mile radius of AP-BCD was conducted in October 2024 through January 2025 and consisted of reviewing federal, state, county records, and online sources. Surveys conducted by Environmental Data Resources (EDR) are included in **Appendix E**. Additional federal, state, county records and online sources outside of the EDR survey were also reviewed. The Putnam County Environmental Health Department did not provide a response following multiple requests. The findings from the 2024 well survey are consistent with the 2023 well survey (Geosyntec, 2024a), including the following additional feature identified:

- One drinking water well located approximately 1.1 miles northeast of AP-BCD, with geographic coordinates 33.20897, -83.29427. and an address of 108 Falcon Wy SE, Milledgeville, Georgia, 31061.

Sections of Lake Sinclair are located between AP-BCD and the well listed above. Therefore, it is reasonable to expect the well to be hydrologically separated from the Site and is not considered to be hydraulically downgradient.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2025 Annual Groundwater Monitoring and Corrective Action Report* for Plant Branch AP-BCD was prepared to fulfill the requirements of the CCR Rule and GA EPD Rules of Solid Waste Management 391-3-4-.10. The groundwater flow direction and rates interpreted during the August 2024 and February 2025 monitoring events are generally consistent with historical evaluations. Statistical analysis of the groundwater monitoring data for the AP-BCD well network confirmed the SSL of selenium in BRGWC-32S and identified an additional SSL of selenium in PZ-75I above corresponding GWPS downgradient of AP-D. Based on the most current data from this reporting period, as described in Section 5, the SSL of selenium in BRGWC-32S is vertically and horizontally delineated downgradient to below the GWPS. Additionally, the SSL of selenium in PZ-75I is horizontally delineated to below the GWPS. Evaluation of the vertical delineation of selenium in PZ-75I is ongoing.

SSLs of beryllium, cadmium, cobalt, and lithium identified previously in detection and assessment monitoring wells BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, and PZ-64I have been addressed by an approved ASD and have been transitioned to the VRP with the state of Georgia. Therefore, they will no longer be monitored under the CCR regulatory framework. Georgia Power will continue monitoring groundwater quality in immediate proximity to AP-B where impacts from the former coal pile are observed. Further evaluation of data from these locations will be assessed during the 5-year permit review for inclusion in remedy selection, if deemed necessary. In accordance with GA EPD Rule 391-3-4-.10(6) and § 257.96, the Site continues in an ACM program.

Georgia Power will continue to monitor AP-BCD groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, at AP-D was submitted to GA EPD on February 28, 2025. The next routine semiannual assessment monitoring event for AP-BCD is scheduled for August 2025. Progress made toward the PDI and other pilot studies will be documented as a summary in future semiannual and annual groundwater monitoring and corrective action reports.

8.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Well ID	Well Designation	Location	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth from (Feet Below Top of Casing)	Groundwater Zone Screened	Installation Date
AP-BCD Monitoring Well Network											
BRGWA-2S	Detection	Upgradient	1167139.70	2549952.60	440.40	443.20	406.20	396.20	47.40	Saprolite	04/02/2014
BRGWA-2I	Detection	Upgradient	1167130.00	2549957.30	440.50	443.14	386.60	376.60	66.94	Bedrock	03/14/2014
BRGWA-5S	Detection	Upgradient	1170177.50	2549415.50	440.80	443.86	411.20	401.20	43.06	Saprolite	04/03/2014
BRGWA-5I	Detection	Upgradient	1170183.70	2549408.00	441.10	443.79	390.30	380.30	63.89	Bedrock	04/03/2014
BRGWA-6S	Detection	Upgradient	1170732.90	2551540.80	455.80	458.96	416.50	406.50	52.86	Saprolite	04/01/2014
BRGWA-23S	Detection	Upgradient	1162971.70	2557868.10	425.50	428.24	395.00	385.00	43.54	PWR/Bedrock	07/26/2016
BRGWC-25I	Detection	Downgradient	1160583.70	2561315.10	355.00	357.37	344.40	334.40	23.37	PWR/Bedrock	07/25/2016
BRGWC-27I	Detection	Downgradient	1159695.30	2559712.20	364.00	366.86	350.40	340.40	26.86	Saprolite	07/22/2016
BRGWC-29I	Detection	Downgradient	1160297.60	2561050.20	350.60	353.23	340.60	330.60	23.03	PWR/Bedrock	07/23/2016
BRGWC-30I	Detection	Downgradient	1161607.60	2557691.80	350.00	352.61	340.15	330.15	22.86	PWR/Bedrock	07/18/2016
BRGWC-32S	Detection	Downgradient	1160677.70	2558497.90	403.60	406.39	369.00	359.00	47.79	Saprolite	07/20/2016
BRGWC-44	Detection	Downgradient	1161724.60	2561587.50	380.50	383.04	333.90	323.90	59.54	Saprolite/PWR/Bedrock	02/02/2018
BRGWC-45	Detection	Downgradient	1162229.80	2561075.50	381.60	384.58	335.00	325.00	59.98	Saprolite/PWR	02/03/2018
BRGWC-47	Detection	Downgradient	1162700.70	2559456.70	408.80	411.20	327.20	317.20	94.40	PWR	01/25/2018
BRGWC-52I	Detection	Downgradient	1161275.00	2562145.30	381.20	383.87	317.30	307.30	76.57	Saprolite/Bedrock	08/06/2018
PZ-63I	Detection	Downgradient	1161371.20	2562233.10	378.60	381.31	332.35	322.35	59.21	Saprolite/PWR/Bedrock	01/05/2022
PZ-80	Detection	Downgradient	1161564.13	2562102.23	379.10	382.24	344.10	334.10	48.57	Saprolite	03/18/2025
PZ-81	Detection	Downgradient	1161492.93	2562260.71	378.66	381.86	340.76	330.76	51.40	PWR/Saprolite	03/12/2025
PZ-68D	Assessment	Downgradient	1160690.48	2558512.90	402.50	405.25	328.50	318.50	87.00	Bedrock	09/06/2022
PZ-74I	Assessment	Downgradient	1160189.30	2557970.94	368.25	371.13	330.50	320.50	50.88	PWR/Bedrock	05/24/2023
PZ-75I	Assessment	Downgradient	1160009.37	2558343.03	354.88	357.86	337.88	327.88	30.38	PWR/Bedrock	06/27/2023
AP-E Monitoring Well Network											
BRGWA-2S	Detection	Upgradient	1167139.70	2549952.60	440.40	443.20	406.20	396.20	47.40	Saprolite	04/02/2014
BRGWA-2I	Detection	Upgradient	1167130.00	2549957.30	440.50	443.14	386.60	376.60	66.94	Bedrock	03/14/2014
BRGWA-5S	Detection	Upgradient	1170177.50	2549415.50	440.80	443.86	411.20	401.20	43.06	Saprolite	04/03/2014
BRGWA-5I	Detection	Upgradient	1170183.70	2549408.00	441.10	443.79	390.30	380.30	63.89	Bedrock	04/03/2014
BRGWA-6S	Detection	Upgradient	1170732.90	2551540.80	455.80	458.96	416.50	406.50	52.86	Saprolite	04/01/2014
BRGWC-17S	Detection	Downgradient	1166301.50	2554687.70	362.20	365.32	360.50	355.50	10.22	Saprolite	03/13/2014
BRGWC-33S	Detection	Downgradient	1168057.00	2554064.80	414.20	416.68	398.20	388.20	28.88	Saprolite/PWR/Bedrock	07/26/2016
BRGWC-34S	Detection	Downgradient	1167384.00	2554231.20	389.20	391.96	376.20	366.20	26.16	Saprolite	07/25/2016
BRGWC-35S	Detection	Downgradient	1166646.00	2554476.30	363.70	366.31	346.70	336.70	30.01	Saprolite	07/23/2016
BRGWC-36S	Detection	Downgradient	1165742.70	2554693.30	383.10	389.84	364.60	354.60	35.44	Saprolite	07/26/2016
BRGWC-37S	Detection	Downgradient	1165093.00	2554979.50	444.40	447.05	391.24	381.24	66.21	Saprolite/PWR	07/24/2016
BRGWC-38S	Detection	Downgradient	1164391.90	2555016.50	429.80	432.24	402.00	392.00	40.64	Saprolite/PWR	07/22/2016
PZ-13S	Assessment	Downgradient	1168011.40	2555276.70	406.50	409.97	382.20	372.20	38.17	Saprolite	03/19/2014
PZ-52D	Assessment	Downgradient	1168053.90	2554051.70	414.30	417.03	364.80	354.80	62.23	Bedrock	05/14/2020
PZ-53D	Assessment	Downgradient	1164393.80	2554984.30	431.60	434.68	302.20	292.20	142.73	Bedrock	05/17/2020
PZ-70I	Assessment	Downgradient	1164326.66	2555374.08	422.88	425.70	383.38	373.38	52.82	Saprolite/PWR	08/16/2022
Piezometers											
PZ-1S	Piezometer	Upgradient	1171996.40	2551588.00	462.40	465.07	407.80	397.80	67.67	Saprolite	03/20/2014
PZ-1I	Piezometer	Upgradient	1171995.80	2551577.80	461.90	464.71	392.80	382.80	82.31	Bedrock	03/10/2014
PZ-1D	Piezometer	Upgradient	1171999.00	2551598.10	462.90	463.41	397.40	302.90	160.51	Bedrock	04/04/2014
PZ-3S	Piezometer	Upgradient	1165484.50	2550274.60	487.00	490.53	457.50	447.50	43.43	Saprolite	03/11/2014
PZ-3I	Piezometer	Upgradient	1165494.50	2550273.20	486.50	489.49	442.30	432.30	57.59	Bedrock	03/11/2014
PZ-3D	Piezometer	Upgradient	1165474.40	2550275.10	486.70	487.50	438.70	356.70	130.80	Bedrock	03/27/2014
PZ-4S	Piezometer	Upgradient	1163247.80	2551270.10	479.90	482.87	460.30	450.30	32.97	Saprolite	03/10/2014
PZ-4I	Piezometer	Upgradient	1163246.80	2551282.00	479.90	482.98	443.50	433.50	49.88	Bedrock	03/11/2014
PZ-7S	Piezometer	Downgradient	1169419.20	2553055.60	449.00	451.57	414.90	404.90	47.07	Saprolite	04/01/2014
PZ-8S	Piezometer	Upgradient	1167801.10	2551188.90	450.50	453.08	411.40	401.40	52.08	Saprolite	04/01/2014
PZ-9S	Piezometer	Upgradient	1162633.30	2553089.60	466.10	469.28	428.50	418.50	51.18	Saprolite	03/05/2014
PZ-10S	Piezometer	Downgradient	1164021.50	2554990.50	431.00	433.85	402.40	392.40	41.85	Saprolite	03/05/2014
PZ-14S	Piezometer	Downgradient	1168398.70	2554359.20	420.20	423.31	393.00	383.00	40.71	Saprolite	03/20/2014
PZ-14I	Piezometer	Downgradient	1168398.20	2554365.60	419.90	422.71	376.50	366.50	56.61	Bedrock	03/20/2014
PZ-15S	Piezometer	Downgradient	1167720.30	2554394.00	400.10	402.90	370.60	360.60	42.70	Saprolite	03/27/2014

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Well ID	Well Designation	Location	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth from (Feet Below Top of Casing)	Groundwater Zone Screened	Installation Date
PZ-15I	Piezometer	Downgradient	1167720.90	2554399.20	400.20	403.06	321.90	311.90	91.56	Bedrock	03/25/2014
PZ-16S	Piezometer	Downgradient	1166977.80	2554581.40	379.30	382.52	370.60	360.60	22.32	Saprolite	03/18/2014
PZ-16I	Piezometer	Downgradient	1166980.70	2554587.50	379.50	382.45	351.30	341.30	41.55	Bedrock	03/14/2014
PZ-17I	Piezometer	Downgradient	1166313.80	2554702.50	362.30	365.33	329.20	319.20	46.53	Bedrock	03/17/2014
PZ-18S	Piezometer	Downgradient	1160757.30	2557747.40	359.70	362.82	345.00	335.00	28.22	Saprolite	03/26/2014
PZ-18I	Piezometer	Downgradient	1160766.20	2557745.50	359.60	362.55	331.50	321.50	41.45	PWR/Bedrock	02/26/2014
PZ-19S	Piezometer	Downgradient	1159805.40	2558894.50	368.40	371.42	350.80	340.80	31.02	Saprolite	03/04/2014
PZ-19I	Piezometer	Downgradient	1159797.10	2558900.00	368.90	371.74	335.60	325.60	46.54	PWR/Bedrock	03/04/2014
PZ-20S	Piezometer	Downgradient	1159490.30	2560157.00	362.20	365.41	357.20	347.20	18.61	Saprolite	03/05/2014
PZ-20I	Piezometer	Downgradient	1159495.40	2560160.20	362.20	365.34	343.10	333.10	32.64	PWR/Bedrock	03/05/2014
PZ-21S	Piezometer	Downgradient	1160592.40	2561321.30	355.50	358.52	351.10	346.10	12.82	Saprolite	03/11/2014
PZ-21I	Piezometer	Downgradient	1160591.60	2561328.20	355.80	358.92	341.80	331.80	27.52	PWR/Bedrock	03/10/2014
PZ-23I	Piezometer	Downgradient	1162975.40	2557877.70	425.10	427.74	368.60	358.60	69.54	Bedrock	07/29/2016
PZ-24S	Piezometer	Downgradient	1162400.90	2562862.20	351.40	354.10	319.90	309.90	44.70	Saprolite	07/27/2016
PZ-26I	Piezometer	Downgradient	1160669.00	2561626.40	368.00	370.63	347.90	337.90	33.13	PWR/Bedrock	07/26/2016
PZ-28I	Piezometer	Downgradient	1159505.10	2560151.70	362.50	364.81	348.50	338.50	26.71	PWR/Bedrock	07/24/2016
PZ-31S	Piezometer	Downgradient	1160936.90	2557971.80	374.30	376.77	345.20	335.20	41.97	PWR/Bedrock	07/26/2016
PZ-40S	Piezometer	Downgradient	1162414.90	2562807.70	353.20	355.96	323.40	313.40	42.96	Saprolite	02/14/2017
PZ-41S	Piezometer	Downgradient	1162431.80	2562759.40	354.30	357.17	320.50	310.50	47.07	Saprolite	02/14/2017
PZ-42S	Piezometer	Downgradient	1162845.70	2562735.00	359.00	361.66	337.20	327.20	34.86	Saprolite	02/09/2017
PZ-46	Piezometer	Downgradient	1162756.20	2560559.00	382.10	384.64	346.50	336.50	49.07	PWR/Bedrock	02/05/2018
PZ-48	Piezometer	Downgradient	1163046.70	2558444.60	418.30	420.90	361.70	351.70	69.60	Saprolite/PWR/Bedrock	01/24/2018
PZ-49	Piezometer	Downgradient	1163321.20	2561125.70	382.20	384.99	375.60	365.60	19.79	Saprolite/Bedrock	01/30/2018
PZ-54	Piezometer	Downgradient	1164828.70	2555458.30	440.80	443.86	399.05	389.05	55.06	Saprolite/PWR	05/15/2020
PZ-55	Piezometer	Downgradient	1163208.00	2554783.60	450.20	453.07	411.15	401.15	52.17	Saprolite/PWR	05/19/2020
PZ-56	Piezometer	Downgradient	1162965.10	2554086.30	416.20	418.84	397.15	387.15	31.94	Saprolite/PWR/Bedrock	05/20/2020
PZ-69I	Piezometer	Downgradient	1160311.39	2558447.46	376.97	379.36	347.97	337.97	41.64	Saprolite	08/31/2022
PZ-71I	Piezometer	Downgradient	1160295.35	2558230.83	382.57	385.34	352.82	342.82	42.77	Saprolite/PWR/Bedrock	05/02/2023
PZ-72I	Piezometer	Downgradient	1160133.29	2558394.65	365.91	368.57	342.01	332.01	36.86	PWR/Bedrock	05/09/2023
PZ-73I	Piezometer	Downgradient	1160226.37	2558559.30	349.87	352.63	334.87	324.87	28.01	PWR/Bedrock	05/10/2023

Notes:
Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
Ground surface elevation defined at the survey nail installed within the well pad.
Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.
Total well depth accounts for sump if data provided on construction logs.
PZ-44 was renamed BRGWC-44 and reclassified to a detection well.
PZ-63I and two new piezometers (PZ-80 and PZ-81) are included in the detection network to monitor groundwater quality in immediate proximity to AP-B shown to be affected by impacts from the former coal pile.
PWR = Partially Weathered Rock

Table 2
Groundwater Sampling Event Summary
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Well ID	Hydraulic Location	Well Designation	August 27 2024 - August 29 2024	February 18 2025 - February 19 2025 and February 26, 2025
			Assessment Event	Assessment Event
Georgia Power Company - Plant Branch - Ash Ponds B, C, and D				
BRGWA-2I	Upgradient	Detection	X	X
BRGWA-2S	Upgradient	Detection	X	X
BRGWA-5I	Upgradient	Detection	X	X
BRGWA-5S	Upgradient	Detection	X	X
BRGWA-6S	Upgradient	Detection	X	X
BRGWA-23S	Upgradient	Detection	X	X
BRGWC-25I	Downgradient	Detection	X	X
BRGWC-27I	Downgradient	Detection	X	X
BRGWC-29I	Downgradient	Detection	X	X
BRGWC-30I	Downgradient	Detection	X	X
BRGWC-32S	Downgradient	Detection	X	X
BRGWC-44	Downgradient	Detection	X	X
BRGWC-45	Downgradient	Detection	X	X
BRGWC-47	Downgradient	Detection	X	X
BRGWC-52I	Downgradient	Detection	X	X
PZ-63I	Downgradient	Detection	X	X
PZ-68D	Downgradient	Assessment	X	X
PZ-74I	Downgradient	Assessment	X	X
PZ-75I	Downgradient	Assessment	X	X

Notes:
X - Indicates well sampled during event

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

		August 2024		February 2025	
Well ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
AP-BCD Detection Monitoring Well Network					
BRGWA-2I	443.14	13.39	429.75	11.64	431.50
BRGWA-2S	443.20	13.59	429.61	11.70	431.50
BRGWA-5I	443.79	14.44	429.35	14.17	429.62
BRGWA-5S	443.86	14.59	429.27	14.25	429.61
BRGWA-6S	458.96	28.71	430.25	28.99	429.97
BRGWA-23S	428.24	41.79	386.45	42.15	386.09
BRGWC-25I	357.37	13.08	344.29	12.25	345.12
BRGWC-27I	366.86	13.55	353.31	12.51	354.35
BRGWC-29I	353.23	11.64	341.59	10.71	342.52
BRGWC-30I	352.61	5.41	347.20	5.11	347.50
BRGWC-32S	406.39	41.88	364.51	42.80	363.59
BRGWC-44	383.04	30.37	352.67	31.16	351.88
BRGWC-45	384.58	15.83	368.75	14.92	369.66
BRGWC-47	411.20	30.21	380.99	31.74	379.46
BRGWC-52I	383.87	40.88	342.99	40.62	343.25
PZ-63I	381.31	40.28	341.03	39.64	341.67
AP-E Detection Monitoring Well Network					
BRGWA-2I	443.14	13.39	429.75	11.64	431.50
BRGWA-2S	443.20	13.59	429.61	11.70	431.50
BRGWA-5I	443.79	14.44	429.35	14.17	429.62
BRGWA-5S	443.86	14.59	429.27	14.25	429.61
BRGWA-6S	458.96	28.71	430.25	28.99	429.97
BRGWC-17S	365.32	6.02	359.30	5.31	360.01
BRGWC-33S	416.68	15.87	400.81	14.67	402.01
BRGWC-34S	391.96	4.56	387.40	3.67	388.29
BRGWC-35S	366.31	1.02	365.29	0.30	366.01
BRGWC-36S	389.84	6.28	383.56	5.90	383.94
BRGWC-37S	447.05	55.58	391.47	56.95	390.10
BRGWC-38S	432.24	25.44	406.80	26.10	406.14
AP-BCD Assessment Monitoring Well Network					
PZ-68D	405.25	42.44	362.81	43.30	361.95
PZ-74I	371.13	28.82	342.31	29.04	342.09
PZ-75I	357.86	18.46	339.40	17.36	340.50
AP-E Assessment Monitoring Well Network					
PZ-13S	409.97	31.11	378.86	32.38	377.59
PZ-52D	417.03	25.33	391.70	26.80	390.23
PZ-53D	434.68	26.58	408.10	27.54	407.14
PZ-70I	425.70	31.48	394.22	32.70	393.00
Piezometers					
PZ-1S	465.07	42.41	422.66	43.61	421.46
PZ-1I	464.71	44.17	420.54	45.11	419.60
PZ-1D	463.41	42.39	421.02	43.39	420.02
PZ-3S	490.53	--	--	--	--
PZ-3I	489.49	52.45	437.04	52.82	436.67
PZ-3D	487.50	50.12	437.38	50.31	437.19
PZ-4S	482.87	32.99	449.88	33.19	449.68
PZ-4I	482.98	35.13	447.85	36.44	446.54
PZ-7S	451.57	31.29	420.28	31.51	420.06
PZ-8S	453.08	29.02	424.06	28.25	424.83

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

		August 2024		February 2025	
Well ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
PZ-9S	469.28	37.15	432.13	38.80	430.48
PZ-10S	433.85	29.94	403.91	30.74	403.11
PZ-14S	423.31	27.42	395.89	27.05	396.26
PZ-14I	422.71	22.44	400.27	23.81	398.90
PZ-15S	402.90	13.23	389.67	11.83	391.07
PZ-15I	403.06	13.03	390.03	11.61	391.45
PZ-16S	382.52	13.18	369.34	11.69	370.83
PZ-16I	382.45	13.04	369.41	11.55	370.90
PZ-17I	365.33	3.47	361.86	2.45	362.88
PZ-18S	362.82	21.72	341.10	21.21	341.61
PZ-18I	362.55	21.56	340.99	20.99	341.56
PZ-19S	371.42	17.95	353.47	18.91	352.51
PZ-19I	371.74	18.52	353.22	19.35	352.39
PZ-20S	365.41	18.44	346.97	17.75	347.66
PZ-20I	365.34	18.69	346.65	17.60	347.74
PZ-21S	358.52	12.70	345.82	--	--
PZ-21I	358.92	14.58	344.34	13.78	345.14
PZ-23I	427.74	40.65	387.09	41.52	386.22
PZ-24S	354.10	14.77	339.33	13.67	340.43
PZ-26I	370.63	25.58	345.05	26.60	344.03
PZ-28I	364.81	18.16	346.65	17.10	347.71
PZ-31S	376.77	29.01	347.76	29.61	347.16
PZ-40S	355.96	16.33	339.63	15.56	340.40
PZ-41S	357.17	17.51	339.66	16.81	340.36
PZ-42S	361.66	20.77	340.89	21.16	340.50
PZ-46	384.64	13.16	371.48	11.07	373.57
PZ-48	420.90	34.96	385.94	36.31	384.59
PZ-49	384.99	11.54	373.45	9.81	375.18
PZ-54	443.86	51.81	392.05	53.17	390.69
PZ-55	453.07	48.59	404.48	50.17	402.90
PZ-56	418.84	11.01	407.83	5.86	412.98
PZ-69I	379.36	22.69	356.67	23.41	355.95
PZ-71I	385.34	34.17	351.17	34.91	350.43
PZ-72I	368.57	26.17	342.40	27.70	340.87
PZ-73I	352.63	8.12	344.51	7.45	345.18
Former Coal Pile Area Piezometers					
BRGWC-50	381.35	39.23	342.12	*	*
PZ-43	383.71	39.41	344.30	*	*
PZ-50D	380.86	38.86	342.00	*	*
PZ-51D	380.75	38.83	341.92	*	*
PZ-51I	380.52	39.23	341.29	*	*
PZ-51S	380.27	39.26	341.01	*	*
PZ-57I	382.50	37.69	344.81	*	*
PZ-58I	382.27	38.67	343.60	*	*
PZ-59I	383.49	40.01	343.48	*	*
PZ-60I	382.61	39.37	343.24	*	*
PZ-61I	380.64	41.24	339.40	*	*
PZ-62I	380.95	39.96	340.99	*	*
PZ-64I	381.94	39.52	342.42	*	*
PZ-65I	382.06	37.40	344.66	*	*

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

		August 2024		February 2025	
Well ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
PZ-66I	383.52	37.34	346.18	*	*
PZ-67	381.48	32.52	348.96	*	*

Notes:
NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
* = Former coal pile area piezometers were removed from the monitoring network following the August 2024 semiannual monitoring event.

Table 4
Horizontal Gradient and Flow Velocity Calculations
Georgia Power Company
Plant Branch - Ash Ponds B, C and D
Putnam County, GA

Well Pair	August 2024					February 2025				
	Groundwater Elevations in Well Pairs (ft)		Change in Elevation (ft)	Distance Between Well 1 and Well 2 (ft)	Hydraulic Gradient (ft/ft)	Groundwater Elevations in Well Pairs (ft)		Change in Elevation (ft)	Distance Between Well 1 and Well 2 (ft)	Hydraulic Gradient (ft/ft)
BRGWA-23S to BRGWC-30I	386.45	347.20	39.25	1421	0.028	386.09	347.50	38.59	1391	0.028
BRGWC-47 to BRGWC-44	380.99	352.67	28.32	2424	0.012	379.46	351.88	27.58	2416	0.011

Well Pair	Average Hydraulic Conductivity (K) (ft/day)	Estimated Effective Porosity (ne)	Average for Reporting Period		Overall Average	
			Hydraulic Gradient (ft/ft)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/year)
BRGWA-23S to BRGWC-30I	2.80	0.20	0.028	0.39	0.24	86
BRGWC-47 to BRGWC-44	1.45		0.012	0.08		

Notes:
ft – feet
ft/day = feet per day
ft/ft = feet per foot
ft/year = feet per year
K = average horizontal hydraulic conductivity
n_e = effective porosity - A value of 20% was selected based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996).
Flow path direction relative to the orientation of AP-BCD and illustrated on Figures 3 and 4 of associated report.
Groundwater flow velocity equation: V= (K* i)ne
Elevations shown are referenced to datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.

Table 5a
Summary of Groundwater Analytical Data – Monitoring Well Network
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

	Sample Location	BRGWA-2I	BRGWA-2I	BRGWA-2S	BRGWA-2S	BRGWA-5I	BRGWA-5I	BRGWA-5S	BRGWA-5S	BRGWA-6S	BRGWA-6S	BRGWA-23S	BRGWA-23S	BRGWC-25I
	Sample Date	08/27/2024	02/18/2025	08/27/2024	02/18/2025	08/27/2024	02/18/2025	08/27/2024	02/18/2025	08/27/2024	02/18/2025	08/27/2024	02/18/2025	08/29/2024
ANALYTE	**UNITS**													
APPENDIX III														
Boron	mg/L	< 0.00520	< 0.00520	< 0.00520	< 0.00520	< 0.00520	0.00591 J	0.00538 J	0.00548 J	< 0.00520	< 0.00520	0.0315	0.0393	2.04
Calcium	mg/L	12.4	13.8	5.45	5.76	15.9	16.9	17.2	16.5	4.19	4.11	5.88	7.17	77.6
Chloride	mg/L	2.16	2.09	2.17	2.09	3.88	4.05	3.49	3.34	2.28	2.25	2.16	2.16	13.7
Fluoride	mg/L	0.0342 J	0.0566 J	0.0426 J	0.0709 J	0.0365 J	0.0553 J	0.0516 J	0.0749 J	0.0334 J	0.0527 J	0.204	0.0974 J	0.248
pH, Field	SU	6.6	6.42	6.02	5.88	6.56	6.17	6.65	6.42	6.8	6.38	5.92	5.8	6.52
Sulfate	mg/L	2.58	3.07	0.444	0.341 J	2.67	3.16	0.652	0.543	0.465	0.468	9.73	13.6	216
TDS	mg/L	82.0	84.0	51.0	44.0	107	106	101	92.0	57.0	46.0	86.0	104	492
APPENDIX IV														
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Barium	mg/L	0.00493	0.00462 J	0.0132	0.0131 J	0.0314	0.0320 J	0.0362	0.0334 J	0.0159	0.0142 J	0.0432	0.0528 J	0.0291
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	0.00445 J	< 0.00300	0.00799 J	0.00765 J	0.00521 J	0.00451 J	0.00604 J	0.00705 J	0.0124	0.0123 J	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	0.00105	0.000715 J	0.000772 J	0.00111 J	0.000396 J	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.00319
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.00584 J	0.00603 J	< 0.00300	< 0.00300	0.00337 J	< 0.00300	< 0.00300	< 0.00300	0.00322 J	< 0.00300	0.00687 J	0.00934 J	< 0.00300
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.000313 J	0.000375 J	< 0.000200	< 0.000200	0.00134	0.00141 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000225 J	0.000273 J	0.00123
Combined Radium 226 + 228	pCi/L	0.864 U	1.02 U	1.40 U	0.747 U	3.62	0.475 U	0.236 U	1.30 U	1.64	2.33	2.43	2.42 U	6.24
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	0.00240 J	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.0342 J	0.0566 J	0.0426 J	0.0709 J	0.0365 J	0.0553 J	0.0516 J	0.0749 J	0.0334 J	0.0527 J	0.204	0.0974 J	0.248
Additional Parameters														
Bicarbonate Alkalinity as CaCO3	mg/L	67.8	69.9	38.0	40.8	79.5	79.3	79.8	77.7	27.8	26.1	32.4	33.2	98.4
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	67.8	69.9	38.0	40.8	79.5	79.3	79.8	77.7	27.8	26.1	32.4	33.2	98.4
Iron	mg/L	0.153	0.0731 J	0.0560 J	0.191	< 0.0330	< 0.0330	0.0458 J	0.0663 J	< 0.0330	0.0677 J	0.0482 J	0.0680 J	< 0.0330
Ferrous (II) Iron	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/L	7.55	7.64	5.49	5.56	9.79	9.84	8.38	7.99	4.21	4.04	3.38	3.55	27.5
Manganese	mg/L	0.0107	0.0134	0.0293	0.0434	< 0.00100	0.00176 J	0.00602	0.00361 J	< 0.00100	0.00145 J	< 0.00100	0.00120 J	2.34
Nitrate	mg/L	0.321	NA	0.176	NA	0.368	NA	0.241	NA	0.713	NA	1.28	NA	< 0.0330
Potassium	mg/L	2.08	2.24	0.431	0.467	1.34	1.48	0.499	0.538	0.736	0.722	1.95	3.11	4.86
Sodium	mg/L	4.74	4.89	3.51	3.56	4.86	4.78	4.89	5.04	2.54	2.35	8.76	8.70	22.3
Sulfide	mg/L	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330

Table 5a
Summary of Groundwater Analytical Data – Monitoring Well Network
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

	Sample Location	BRGWC-25I	BRGWC-27I	BRGWC-27I	BRGWC-29I	BRGWC-29I	BRGWC-30I	BRGWC-30I	BRGWC-32S	BRGWC-32S	BRGWC-44	BRGWC-44	BRGWC-45	BRGWC-45
	Sample Date	02/19/2025	08/27/2024	02/19/2025	08/27/2024	02/19/2025	08/28/2024	02/19/2025	08/28/2024	02/19/2025	08/27/2024	02/19/2025	08/29/2024	02/19/2025
ANALYTE	**UNITS**													
APPENDIX III														
Boron	mg/L	1.63	1.28	1.02	1.09	1.56	1.82	1.92	0.996	1.05	1.16	1.13	0.0431	0.0537
Calcium	mg/L	73.0	75.9	46.4	70.5	119	419	442	37.4	37.7	24.9	24.5	42.9	44.3
Chloride	mg/L	12.5	4.47	3.08	8.87	8.25	3.48	2.90	4.09	3.90	5.99	6.18	24.8	21.2
Fluoride	mg/L	0.281	0.382	0.0997 J	0.0849 J	0.129	0.336 J	0.194	0.0511 J	0.0774 J	0.193	0.127	0.0780 J	0.142
pH, Field	SU	6.13	5.95	5.44	4.47	3.91	6.49	6.37	6.05	6.11	6.19	6.2	6.26	5.78
Sulfate	mg/L	204	174	134	261	346	1260	1310	201	196	41.8	41.1	150	169
TDS	mg/L	419	346	222	424	519	2030	2120	374	351	180	131	353	348
APPENDIX IV														
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Barium	mg/L	0.0254 J	0.0164	0.0193 J	0.0163	0.0168 J	0.0339	0.0328 J	0.0163	0.0192 J	0.0524	0.0500 J	0.0602	0.0629 J
Beryllium	mg/L	< 0.000200	< 0.000200	0.000201 J	0.000892	0.00100 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	0.00193 J	0.00566	0.00157 J	0.00574	0.00698 J	0.00149	0.00149 J	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.00203	0.000823 J
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	< 0.00300	0.00305 J	< 0.00300	0.0295	0.0301 J	0.00514 J	0.00514 J	0.00629 J	0.00581 J	< 0.00300	< 0.00300
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	0.000384	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.000820 J	0.000211 J	< 0.000200	< 0.000200	< 0.000200	0.00123	0.00128 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000207 J	0.000261 J
Combined Radium 226 + 228	pCi/L	2.94	2.41	1.44 U	2.39	2.67	3.82	1.09 U	0.737 U	2.61	2.84	0.947 U	1.71	2.94
Selenium	mg/L	0.00217 J	< 0.00150	0.00309 J	< 0.00150	0.00450 J	< 0.00150	0.00316 J	0.0945	0.0782	< 0.00150	0.00202 J	< 0.00150	0.00237 J
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.281	0.382	0.0997 J	0.0849 J	0.129	0.336 J	0.194	0.0511 J	0.0774 J	0.193	0.127	0.0780 J	0.142
Additional Parameters														
Bicarbonate Alkalinity as CaCO3	mg/L	105	51.2	40.8	< 0.725	< 0.725	141	148	30.1	32.2	76.7	77.3	38.2	42.9
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	105	51.2	40.8	< 0.725	< 0.725	141	148	30.1	32.2	76.7	77.3	38.2	42.9
Iron	mg/L	0.0776 J	< 0.0330	< 0.0330	17.6	20.5	2.57	2.24	< 0.0330	0.393	< 0.0330	< 0.0330	0.0353 J	< 0.0330
Ferrous (II) Iron	mg/L	0	0	0	6.5	2	0.5	0.5	0	0	0	0	0	0
Magnesium	mg/L	24.7	7.27	6.50	8.52	10.2	57.8	63.2	23.1	22.3	10.5	9.94	22.0	22.3
Manganese	mg/L	1.68	0.415	0.0864	1.13	1.87	1.52	1.75	< 0.00100	0.00267 J	0.404	0.426	0.140	0.0789
Nitrate	mg/L	NA	0.0370 J	NA	< 0.0330	NA	< 0.165	NA	0.213	NA	0.0416 J	NA	< 0.0330 H	NA
Potassium	mg/L	4.65	5.07	5.55	9.74	9.63	5.86	6.25	2.26	2.93	2.65	2.82	3.24	3.43
Sodium	mg/L	21.4	16.7	16.9	17.7	17.4	29.0	28.2	24.0	24.4	11.9	11.5	15.7	15.3
Sulfide	mg/L	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA

Table 5a
Summary of Groundwater Analytical Data – Monitoring Well Network
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

	Sample Location	BRGWC-47	BRGWC-47	BRGWC-52I	BRGWC-52I	PZ-63I	PZ-63I	PZ-68D	PZ-68D	PZ-74I	PZ-74I	PZ-75I	PZ-75I
	Sample Date	08/28/2024	02/18/2025	08/28/2024	02/19/2025	08/29/2024	02/19/2025	08/29/2024	02/19/2025	08/27/2024	02/18/2025	08/27/2024	02/18/2025
ANALYTE	UNITS												
APPENDIX III													
Boron	mg/L	0.508	0.682	1.44	1.67	0.731	0.712	0.404	0.389	1.20	1.25	1.20	1.31
Calcium	mg/L	302	322	36.8	40.1	65.6	75.5	96.7	93.6	68.8	61.8	49.8	48.1
Chloride	mg/L	4.57	4.54	6.58	6.43	6.86	7.57	18.1	16.8	27.1	13.7	6.31	6.06
Fluoride	mg/L	< 0.0660	0.189	0.0748 J	0.152	0.139	0.194	0.126	0.135	0.159	0.0877 J	0.155	0.0816 J
pH, Field	SU	5.57	5.73	6.49	6.26	5.7	5.59	7.36	7.23	5.89	6.03	5.63	5.84
Sulfate	mg/L	1310	1340	150	149	344	403	280	308	260	268	257	273
TDS	mg/L	1780	1960	310	298	625	664	601	568	519	471	467	476
APPENDIX IV													
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Barium	mg/L	0.0257	0.0266 J	0.0345	0.0390 J	0.0206	0.0224 J	0.0796	0.0959 J	0.0260	0.0222 J	0.0350	0.0299 J
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.0335	0.0402	0.000526 J	0.000454 J	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.0436	0.0456	0.00997 J	0.0114 J	0.00651 J	0.00669 J	0.00633 J	< 0.00300	0.00825 J	0.00692 J	0.00433 J	0.00355 J
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	0.000121 J	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.000252 J	0.000295 J	0.000691 J	0.000826 J	0.000827 J	0.000765 J	0.00702	0.00612 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Combined Radium 226 + 228	pCi/L	1.32 U	2.18 U	14.7	4.91	4.48	1.73	5.43	1.79 U	0.997 U	0.399 U	2.81	2.59
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	0.00198 J	< 0.00150	0.00262 J	< 0.00150	0.00205 J	0.0597	0.0622	0.106	0.122
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	< 0.0660	0.189	0.0748 J	0.152	0.139	0.194	0.126	0.135	0.159	0.0877 J	0.155	0.0816 J
Additional Parameters													
Bicarbonate Alkalinity as CaCO3	mg/L	27.8	27.1	52.8	55.8	22.5	26.4	114	121	45.8	46.5	35.3	33.3
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	27.8	27.1	52.8	55.8	22.5	26.4	114	121	45.8	46.5	35.3	33.3
Iron	mg/L	0.119	0.0454 J	0.578	1.44	0.741	0.747	0.399	0.372	0.138	0.104	< 0.0330	0.0717 J
Ferrous (II) Iron	mg/L	0	0	0	0	1	1	0	0	0	0	0	0
Magnesium	mg/L	114	121	18.5	18.4	45.0	49.9	23.1	21.8	38.4	34.3	36.1	34.7
Manganese	mg/L	0.00704	0.00667	0.558	0.534	8.12	9.01	0.150	0.219	0.00713	0.00477 J	0.0125	0.00622
Nitrate	mg/L	0.176 J	NA	< 0.0330	NA	0.754 H	NA	< 0.0330	NA	0.0492 J	NA	0.0477 J	NA
Potassium	mg/L	11.1	11.4	4.35	5.05	8.41	8.74	8.24	11.6	3.36	3.18	4.07	3.75
Sodium	mg/L	38.9	40.8	17.6	19.0	19.6	20.0	35.2	56.9	25.5	24.2	25.7	24.7
Sulfide	mg/L	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA

Notes:
mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
TDS - total dissovled solids
< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
H - Sample analysis performed beyond the recognized method holding time.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
Metals were analyzed by EPA Method 6020B and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.
The pH value presented was recorded at the time of sample collection in the field.

Table 5b
Summary of Groundwater Analytical Data - Former Coal Pile Area Piezometers
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

	Sample Location	BRGWC-50	PZ-50D	PZ-51I	PZ-51D	PZ-58I	PZ-60I	PZ-61I	PZ-64I
	Sample Date	08/29/2024	08/29/2024	08/29/2024	08/29/2024	08/29/2024	08/29/2024	08/29/2024	08/29/2024
ANALYTE	UNITS								
APPENDIX III									
Boron	mg/L	0.393	0.298	0.443	0.0366	0.444	0.318	0.348	0.0142 J
Calcium	mg/L	232	197	231	127	209	322	216	333
Chloride	mg/L	15.1	11.2	9.77	17.9	13.6	27.1	15.3	33.8
Fluoride	mg/L	0.442	0.165	0.0805 J	0.326	1.36	1.3	0.111 J	< 0.165
pH, Field	SU	5.2	6.16	5.39	7.06	3.93	4.5	5.23	5.58
Sulfate	mg/L	1,390	806	1,290	361	1,200	1,980	1,460	2,300
TDS	mg/L	2,140	1,490	2,010	800	1,970	3,270	2,110	3,830
APPENDIX IV									
Antimony	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	0.00356 J	< 0.002	< 0.01	< 0.01	< 0.01
Barium	mg/L	0.0156	0.026	0.0135	0.0471	0.0164	0.0203	0.0103	0.0119
Beryllium	mg/L	0.00868	< 0.0002	< 0.0002	< 0.0002	0.0393	0.0671	0.00173	0.003
Cadmium	mg/L	0.00742	< 0.0003	0.00181	< 0.0003	0.00519	0.0156	0.000413 J	0.00411 J
Chromium	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt	mg/L	1.36	0.111	0.0246	0.000506 J	0.622	3.66	0.743	9.65
Lead	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000884 J	< 0.0005	< 0.0005	< 0.0005
Lithium	mg/L	0.0433	0.0279	0.026	0.00392 J	0.0602	0.103	0.0108	0.0134
Mercury	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Molybdenum	mg/L	< 0.0002	0.000466 J	0.000288 J	0.00192	< 0.0002	< 0.001	< 0.0002	< 0.001
Combined Radium 226 + 228	pCi/L	3.86	3.49	2.55	3.43	3.34	3.7	2.64	1.72
Selenium	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.00576	< 0.0075	< 0.0075	0.00888 J
Thallium	mg/L	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Fluoride	mg/L	0.442	0.165	0.0805 J	0.326	1.36	1.3	0.111 J	< 0.165
Additional Parameters									
Bicarbonate Alkalinity as CaCO3	mg/L	10.9	56.9	23.8	129	< 0.725	< 0.725	12.7	14.7
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	10.9	56.9	23.8	129	< 0.725	< 0.725	12.7	14.7
Iron	mg/L	0.23	2.01	0.0681 J	3.37	63	2.31	0.233	1.81
Ferrous (II) Iron	mg/L	0	2	0	1	7	1.5	0	0.5
Magnesium	mg/L	156	76.6	146	27.4	109	202	165	222
Manganese	mg/L	79.4	9.82	52	1.41	45.5	191	111	348
Nitrate	mg/L	< 0.066	0.818	< 0.066	< 0.066	1.52	< 0.165	< 0.132	< 0.165
Potassium	mg/L	10.6	11.2	11.2	9.83	8.99	13.1	6.33	12.4
Sodium	mg/L	50.7	45.8	46.8	51.4	39.1	64.4	59.8	65.5
Sulfide	mg/L	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Notes:
mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
TDS - total dissovled solids
< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
H - Sample analysis performed beyond the recognized method holding time.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
Metals were analyzed by EPA Method 6020B and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.
The pH value presented was recorded at the time of sample collection in the field.

Table 6
Summary of Surface Water Analytical Data
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Sample Location		LR-1 (bottom)	LR-1 (bottom)	LR-1 (mid)	LR-1 (mid)	LR-1 (surface)	LR-1 (surface)	LS+3(mid)	LS+3(mid)	LS+3(surface)	LS+3(surface)
Sample Date		08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050
Calcium	mg/L	5.6	5.1	5.5	5.2	5.6	5.3	5.5	5.5	5.2	5.5
Chloride	mg/L	3.4	3.3	3.4	3.3	3.4	3.3	3.4	3.5	3.4	3.6
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	7.11	7.19	7.16	7.2	7.07	7.11	7.24	7.26	7.2	7.2
Sulfate	mg/L	1.8	2.0	1.8	2.0	1.9	2.0	2.0	2.5	2.0	2.5
TDS	mg/L	60.0	70.0	60.0	84.0	69.0	70.0	71.0	72.0	57.0	70.0
APPENDIX IV											
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	NA	NA	NA
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Selenium	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Additional Parameters											
Alkalinity Total as CaCO3	mg/L	32.7	25.6	33.9	25.7	31.4	26.2	34.7	27.8	32.7	27.6
Bicarbonate Alkalinity as CaCO3	mg/L	32.7	25.6	33.9	25.7	31.4	26.2	34.7	27.8	32.7	27.6
Magnesium	mg/L	2.7	2.1	2.6	2.2	2.7	2.2	2.7	2.3	2.5	2.3
Potassium	mg/L	2.6	< 5.0	2.6	< 5.0	2.7	< 5.0	2.7	< 5.0	2.5	< 5.0
Sodium	mg/L	5.2	< 5.0	5.2	< 5.0	5.3	< 5.0	5.3	5.1	5.0	5.2

Table 6
Summary of Surface Water Analytical Data
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Sample Location		LS+3A(surface)	LS+3A(surface)	LR+8 (bottom)	LR+8 (bottom)	LR+8 (mid)	LR+8 (mid)	LR+8 (surface)	LR+8 (surface)	LR+8A (surface)	LR+8A (surface)
Sample Date		08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025
ANALYTE	**UNITS**										
APPENDIX III											
Boron	mg/L	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050
Calcium	mg/L	5.5	5.3	5.4	5.5	5.2	5.6	5.4	5.6	5.4	5.5
Chloride	mg/L	3.4	3.6	3.5	3.9	3.5	4.0	3.5	3.9	3.4	4.0
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	7.32	7.21	7.03	7.34	7.01	7.38	6.99	7.33	7.17	7.43
Sulfate	mg/L	2.0	2.4	2.1	2.6	2.1	2.7	2.1	2.5	2.1	2.9
TDS	mg/L	55.0	50.0	74.0	63.0	58.0	47.0	59.0	71.0	72.0	70.0
APPENDIX IV											
Cobalt	mg/L	NA	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Selenium	mg/L	< 0.0050	< 0.0050	NA	NA	NA	NA	NA	NA	NA	NA
Additional Parameters											
Alkalinity Total as CaCO3	mg/L	31.7	69.1	30.7	27.9	31.0	27.8	30.8	28.0	31.7	27.4
Bicarbonate Alkalinity as CaCO3	mg/L	31.7	41.9	30.7	27.9	31.0	27.8	30.8	28.0	31.7	27.4
Magnesium	mg/L	2.6	2.2	2.5	2.3	2.4	2.2	2.5	2.3	2.5	2.3
Potassium	mg/L	2.6	< 5.0	2.6	< 5.0	2.5	< 5.0	2.7	< 5.0	2.6	< 5.0
Sodium	mg/L	5.2	5.1	5.1	5.5	4.9	5.6	5.2	5.6	5.1	5.6

Table 6
Summary of Surface Water Analytical Data
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Sample Location		LR+9 (bottom)	LR+9 (bottom)	LR+9 (mid)	LR+9 (mid)	LR+9 (surface)	LR+9 (surface)	LR+9A (surface)	LR+9A (surface)	LR+10 (bottom)	LR+10 (bottom)
Sample Date		08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050
Calcium	mg/L	5.3	5.6	5.3	5.7	5.2	5.6	5.2	5.7	5.1	5.4
Chloride	mg/L	3.5	4.1	3.6	4.2	3.5	4.2	3.5	3.9	3.6	4.6
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	6.72	7.38	6.72	7.39	6.71	7.35	6.9	7.48	9.96	7.45
Sulfate	mg/L	2.1	2.9	2.1	3.0	2.1	2.9	2.2	3.0	2.1	3.4
TDS	mg/L	90.0	58.0	70.0	54.0	60.0	56.0	67.0	56.0	63.0	49.0
APPENDIX IV											
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0050	< 0.0050
Additional Parameters											
Alkalinity Total as CaCO3	mg/L	29.3	26.7	30.5	27.3	30.3	26.9	30.6	28.0	29.7	25.9
Bicarbonate Alkalinity as CaCO3	mg/L	29.3	26.7	30.5	27.3	30.3	26.9	30.6	28.0	29.7	25.9
Magnesium	mg/L	2.4	2.3	2.4	2.3	2.4	2.3	2.4	2.3	2.3	2.1
Potassium	mg/L	2.6	< 5.0	2.6	< 5.0	2.6	< 5.0	2.6	< 5.0	2.5	< 5.0
Sodium	mg/L	5.0	5.8	5.1	6.0	5.0	5.8	5.0	5.6	4.6	6.3

Table 6
Summary of Surface Water Analytical Data
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Sample Location		LR+10 (mid)	LR+10 (mid)	LR+10 (surface)	LR+10 (surface)	LR-1 (bottom)	LR-1 (bottom)	LR-1 (mid)	LR-1 (mid)	LR-1 (surface)	LR-1 (surface)
Sample Date		08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050
Calcium	mg/L	5.3	5.4	5.4	5.6	5.6	5.1	5.5	5.2	5.6	5.3
Chloride	mg/L	3.6	4.5	3.6	4.6	3.4	3.3	3.4	3.3	3.4	3.3
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	6.91	7.48	6.97	7.48	7.11	7.19	7.16	7.2	7.07	7.11
Sulfate	mg/L	2.1	3.2	2.1	3.3	1.8	2.0	1.8	2.0	1.9	2.0
TDS	mg/L	68.0	51.0	56.0	58.0	60.0	70.0	60.0	84.0	69.0	70.0
APPENDIX IV											
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Selenium	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Additional Parameters											
Alkalinity Total as CaCO3	mg/L	30.0	27.4	29.2	26.2	32.7	25.6	33.9	25.7	31.4	26.2
Bicarbonate Alkalinity as CaCO3	mg/L	30.0	27.4	29.2	26.2	32.7	25.6	33.9	25.7	31.4	26.2
Magnesium	mg/L	2.4	2.2	2.4	2.2	2.7	2.1	2.6	2.2	2.7	2.2
Potassium	mg/L	2.6	< 5.0	2.7	< 5.0	2.6	< 5.0	2.6	< 5.0	2.7	< 5.0
Sodium	mg/L	5.1	5.9	5.2	6.3	5.2	< 5.0	5.2	< 5.0	5.3	< 5.0

Table 6
Summary of Surface Water Analytical Data
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Sample Location		LS+3(mid)	LS+3(mid)	LS+3(surface)	LS+3(surface)	LS+3A(surface)	LS+3A(surface)	LR+8 (bottom)	LR+8 (bottom)	LR+8 (mid)	LR+8 (mid)
Sample Date		08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050
Calcium	mg/L	5.5	5.5	5.2	5.5	5.5	5.3	5.4	5.5	5.2	5.6
Chloride	mg/L	3.4	3.5	3.4	3.6	3.4	3.6	3.5	3.9	3.5	4.0
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	7.24	7.26	7.2	7.2	7.32	7.21	7.03	7.34	7.01	7.38
Sulfate	mg/L	2.0	2.5	2.0	2.5	2.0	2.4	2.1	2.6	2.1	2.7
TDS	mg/L	71.0	72.0	57.0	70.0	55.0	50.0	74.0	63.0	58.0	47.0
APPENDIX IV											
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Selenium	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	NA	NA	NA
Additional Parameters											
Alkalinity Total as CaCO3	mg/L	34.7	27.8	32.7	27.6	31.7	69.1	30.7	27.9	31.0	27.8
Bicarbonate Alkalinity as CaCO3	mg/L	34.7	27.8	32.7	27.6	31.7	41.9	30.7	27.9	31.0	27.8
Magnesium	mg/L	2.7	2.3	2.5	2.3	2.6	2.2	2.5	2.3	2.4	2.2
Potassium	mg/L	2.7	< 5.0	2.5	< 5.0	2.6	< 5.0	2.6	< 5.0	2.5	< 5.0
Sodium	mg/L	5.3	5.1	5.0	5.2	5.2	5.1	5.1	5.5	4.9	5.6

Table 6
Summary of Surface Water Analytical Data
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Sample Location		LR+8 (surface)	LR+8 (surface)	LR+8A (surface)	LR+8A (surface)	LR+9 (bottom)	LR+9 (bottom)	LR+9 (mid)	LR+9 (mid)	LR+9 (surface)	LR+9 (surface)
Sample Date		08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050
Calcium	mg/L	5.4	5.6	5.4	5.5	5.3	5.6	5.3	5.7	5.2	5.6
Chloride	mg/L	3.5	3.9	3.4	4.0	3.5	4.1	3.6	4.2	3.5	4.2
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	6.99	7.33	7.17	7.43	6.72	7.38	6.72	7.39	6.71	7.35
Sulfate	mg/L	2.1	2.5	2.1	2.9	2.1	2.9	2.1	3.0	2.1	2.9
TDS	mg/L	59.0	71.0	72.0	70.0	90.0	58.0	70.0	54.0	60.0	56.0
APPENDIX IV											
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Additional Parameters											
Alkalinity Total as CaCO3	mg/L	30.8	28.0	31.7	27.4	29.3	26.7	30.5	27.3	30.3	26.9
Bicarbonate Alkalinity as CaCO3	mg/L	30.8	28.0	31.7	27.4	29.3	26.7	30.5	27.3	30.3	26.9
Magnesium	mg/L	2.5	2.3	2.5	2.3	2.4	2.3	2.4	2.3	2.4	2.3
Potassium	mg/L	2.7	< 5.0	2.6	< 5.0	2.6	< 5.0	2.6	< 5.0	2.6	< 5.0
Sodium	mg/L	5.2	5.6	5.1	5.6	5.0	5.8	5.1	6.0	5.0	5.8

Table 6
Summary of Surface Water Analytical Data
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Sample Location		LR+9A (surface)	LR+9A (surface)	LR+10 (bottom)	LR+10 (bottom)	LR+10 (mid)	LR+10 (mid)	LR+10 (surface)	LR+10 (surface)
Sample Date		08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025
ANALYTE	**UNITS**								
APPENDIX III									
Boron	mg/L	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050
Calcium	mg/L	5.2	5.7	5.1	5.4	5.3	5.4	5.4	5.6
Chloride	mg/L	3.5	3.9	3.6	4.6	3.6	4.5	3.6	4.6
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	6.9	7.48	9.96	7.45	6.91	7.48	6.97	7.48
Sulfate	mg/L	2.2	3.0	2.1	3.4	2.1	3.2	2.1	3.3
TDS	mg/L	67.0	56.0	63.0	49.0	68.0	51.0	56.0	58.0
APPENDIX IV									
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Selenium	mg/L	NA	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Additional Parameters									
Alkalinity Total as CaCO3	mg/L	30.6	28.0	29.7	25.9	30.0	27.4	29.2	26.2
Bicarbonate Alkalinity as CaCO3	mg/L	30.6	28.0	29.7	25.9	30.0	27.4	29.2	26.2
Magnesium	mg/L	2.4	2.3	2.3	2.1	2.4	2.2	2.4	2.2
Potassium	mg/L	2.6	< 5.0	2.5	< 5.0	2.6	< 5.0	2.7	< 5.0
Sodium	mg/L	5.0	5.6	4.6	6.3	5.1	5.9	5.2	6.3

Notes:
mg/L - milligrams per liter
SU - Standard Units
NA - Indicates not analyzed
< indicates the substance was not detected above the reporting limit (RL). The value displayed is the RL.

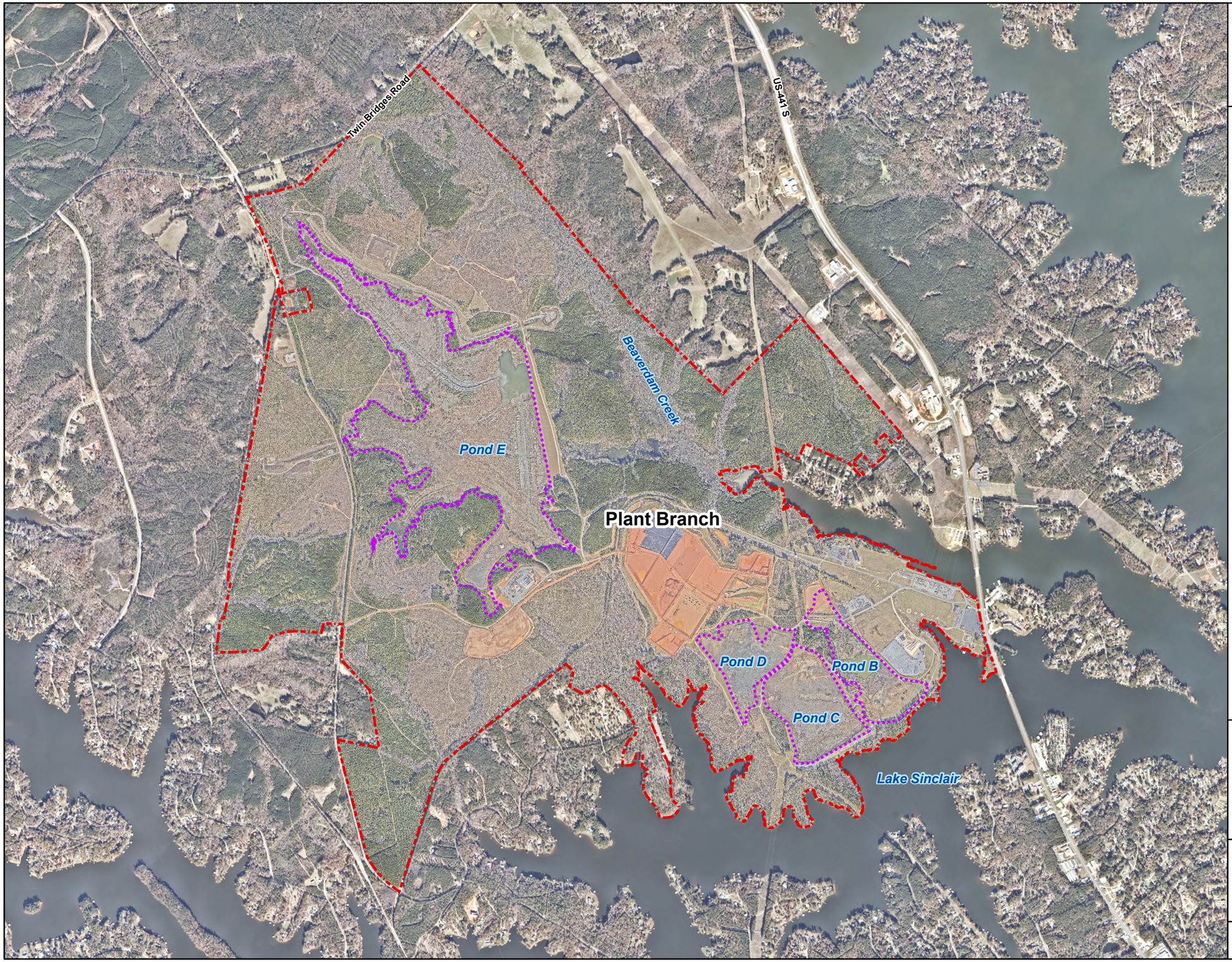
Table 7

Summary of Background Concentrations and Groundwater Protection Standards
Georgia Power Company
Plant Branch - Ash Ponds B, C, and D
Putnam County, GA

Analyte	Units	MCL	CCR-Rule Specified	Background		GWPS
				August 2024	February 2025	
Antimony	mg/L	0.006		0.025	0.025	0.006
Arsenic	mg/L	0.01		0.005	0.005	0.01
Barium	mg/L	2		0.13	0.13	2
Beryllium	mg/L	0.004		0.0005	0.0005	0.004
Cadmium	mg/L	0.005		0.001	0.001	0.005
Chromium	mg/L	0.1		0.016	0.016	0.1
Cobalt	mg/L		0.006	0.014	0.014	0.014
Combined Radium 226 + 228	pCi/L	5		2.33	2.36	5
Fluoride	mg/L	4		0.42	0.42	4
Lead	mg/L		0.015	0.002	0.002	0.015
Lithium	mg/L		0.04	0.089	0.089	0.089
Mercury	mg/L	0.002		0.00021	0.00021	0.002
Molybdenum	mg/L		0.1	0.008	0.008	0.1
Selenium	mg/L	0.05		0.006	0.006	0.05
Thallium	mg/L	0.002		0.002	0.002	0.002

Notes:
CCR - Coal Combustion Residuals
GWPS- Groundwater Protection Standard
MCL - Maximum Contaminant Level
mg/L = miligrams per liter
pCi/L = picocuries per liter
The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).
Under existing EPD rules, the GWPS is: (i) the MCL or RSL, (ii) where the MCL or RSL is not established, the background concentration, or (iii) background levels for constituents where the background level is higher than the MCL or RSL.

FIGURES



N

LEGEND

- Plant Branch Property Boundary
- Approximate Ash Pond Boundary



Notes:
1. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
2. Property Boundary Provided by Southern Company Services.
3. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 2,000 4,000
Scale in Feet

SITE LOCATION MAP

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 1



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Surface Water Sample Point
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Surface water sampling location LR-1 is located to the south of AP-BCD beyond the extent displayed in this figure.
2. BRGWC-50, PZ-43, PZ-50D, PZ-51I, PZ-51S, PZ51D, PZ-57I, PZ-58I, PZ-59I, PZ-60I, PZ61I, PZ-62I, PZ-64I, PZ-65I, PZ-66I, and PZ-67 have been removed from AP-BCD groundwater monitoring network.
3. PZ-44 and PZ-63I have been redesignated to the detection monitoring network. PZ-44 well name has been converted to BRGWC-44.
4. Property Boundary Provided by Southern Company Services.
5. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 1,500 3,000
Scale in Feet

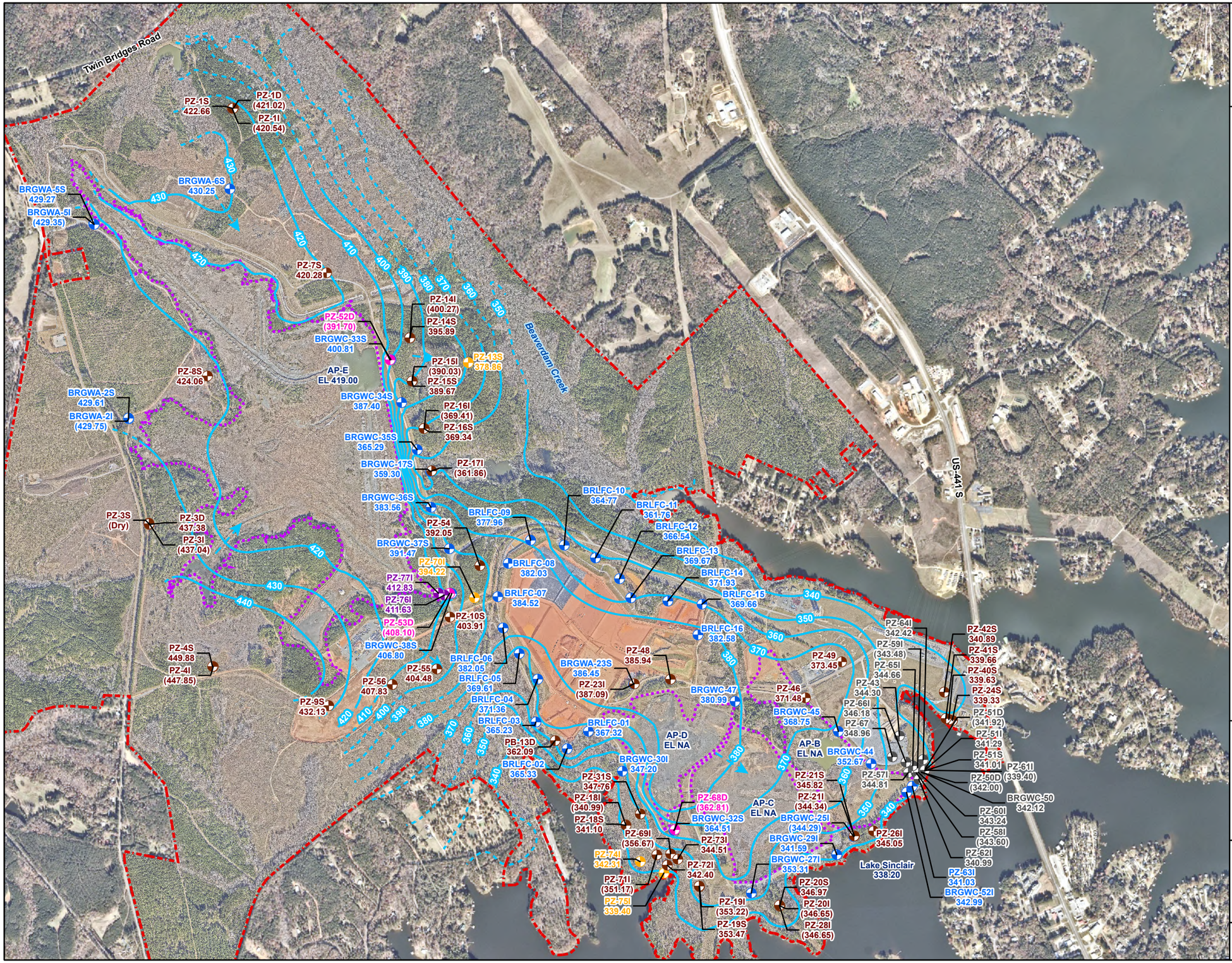
MONITORING WELL NETWORK AND SURFACE WATER LOCATION MAP

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power
Prepared By: Geosyntec consultants

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FIGURE 2



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Temporary Piezometer
- Former Coal Pile Area Piezometer
- Groundwater Elevation Iso-Contour
- Groundwater Elevation Iso-Contour (Inferred)
- Approximate Groundwater Flow Direction
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

JOSEPH M. IVANOWSKI ★ GEORGIA REGISTERED PROFESSIONAL GEOLOGIST ★ No. 002140

Notes:
1. Water level elevation recorded on August 26, 2024, for semiannual groundwater event.
2. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
3. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
4. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
5. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
6. Property Boundary Provided by Southern Company Services.
7. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 1,500 3,000
Scale in Feet

POTENTIOMETRIC SURFACE CONTOUR MAP - AUGUST 2024

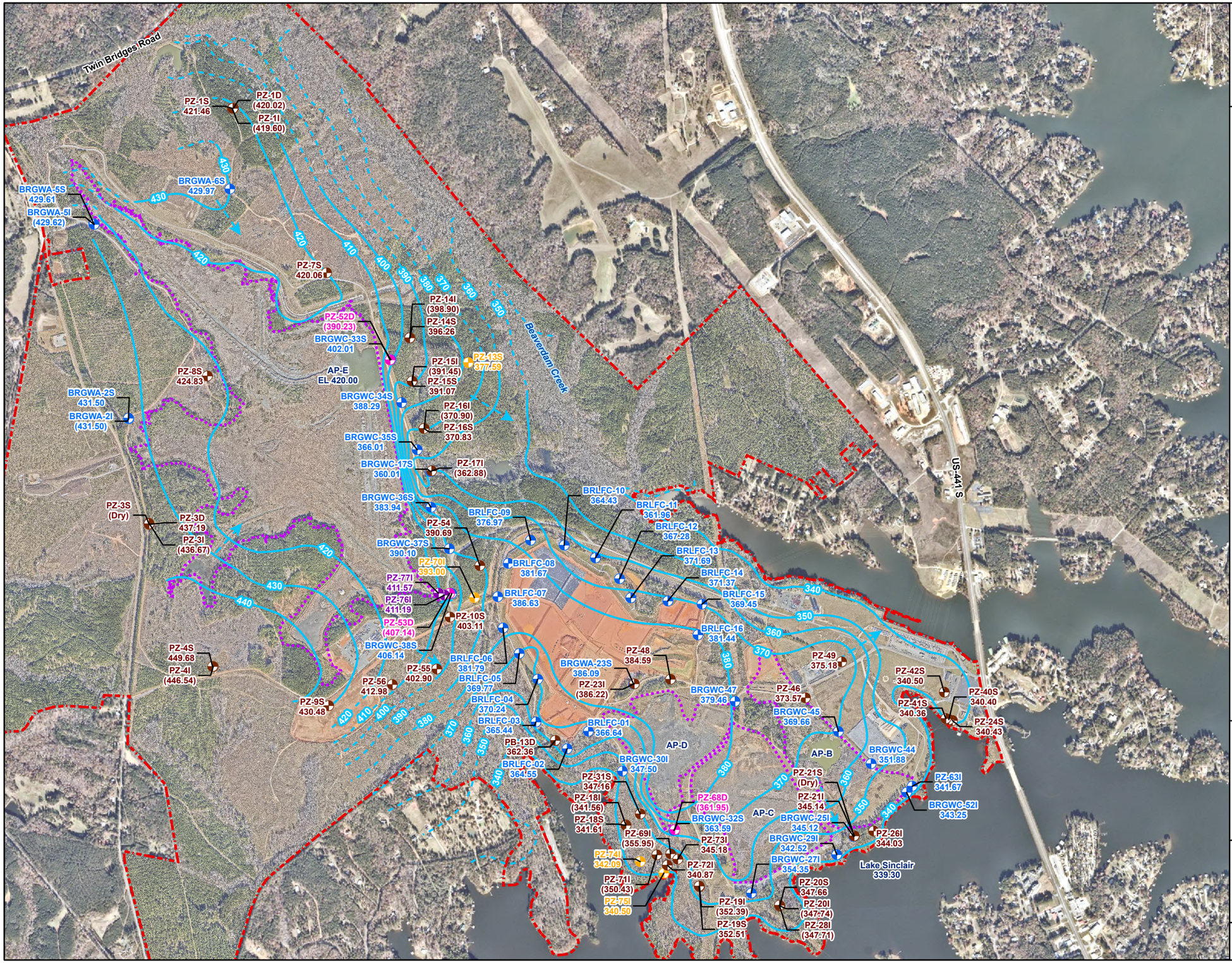
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 3



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Temporary Piezometer
- Groundwater Elevation Iso-Contour
- Groundwater Elevation Iso-Contour (Inferred)
- Approximate Groundwater Flow Direction
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

JOSEPH M. IVANOWSKI ★ GEORGIA REGISTERED PROFESSIONAL GEOLOGIST ★ No. 002140

Notes:
1. BRGWC-50, PZ-43, PZ-50D, PZ-51I, PZ-51S, PZ51D, PZ-57I, PZ-58I, PZ-59I, PZ-60I, PZ61I, PZ-62I, PZ-64I, PZ-65I, PZ-66I, and PZ-67 have been removed from AP-BCD groundwater monitoring network.
2. Water level elevation recorded on February 17, 2025, for semiannual groundwater event.
3. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
4. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
5. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
6. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
7. Property Boundary Provided by Southern Company Services.
8. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 1,500 3,000
Scale in Feet

POTENTIOMETRIC SURFACE CONTOUR MAP - FEBRUARY 2025

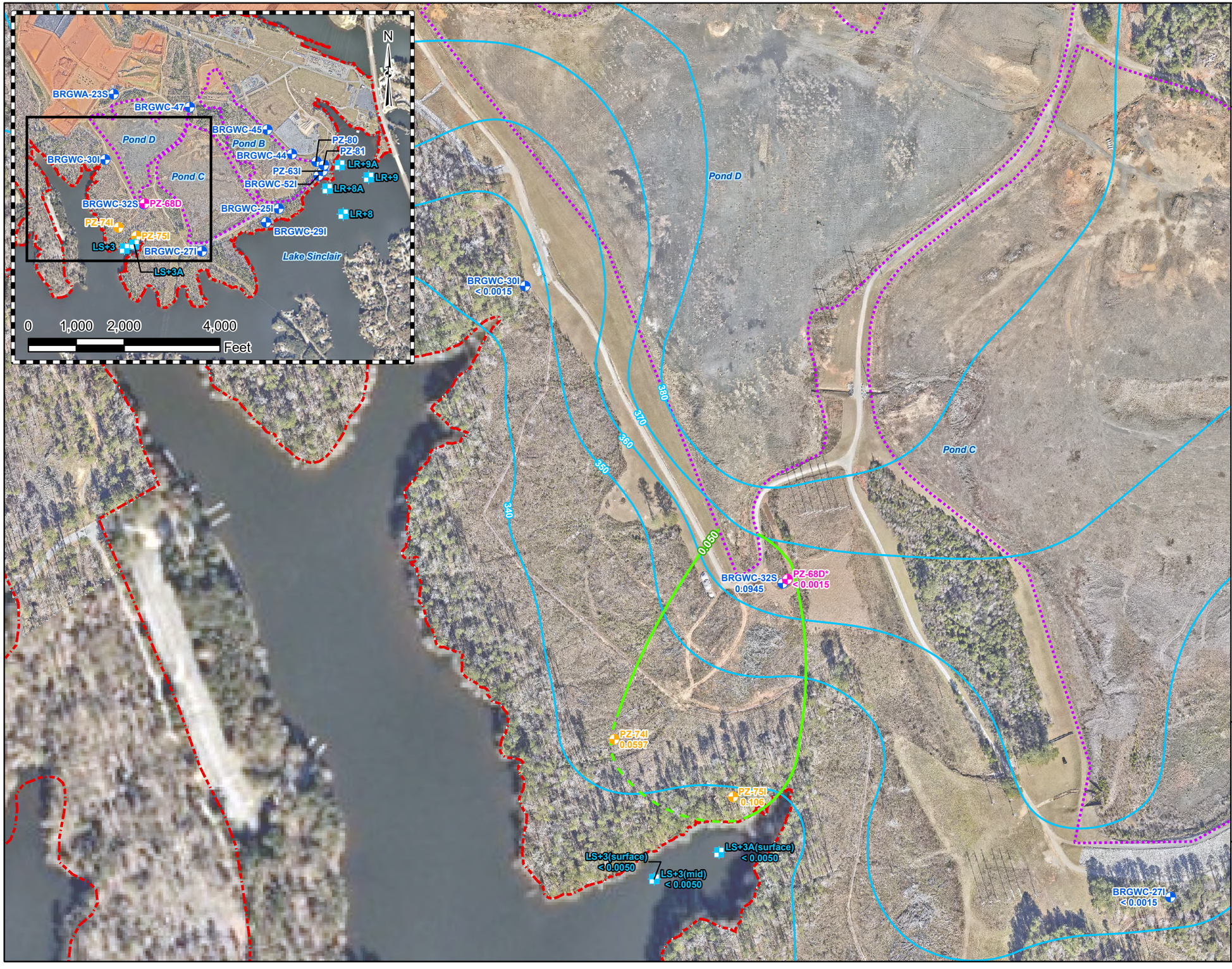
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 4



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Surface Water Sample Point
- Groundwater Elevation Iso-Contour (August 2024)
- 0.050 Selenium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the August 2024, semiannual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 26, 2024.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standards (GWPS) for selenium is 0.050 mg/L.
6. * - Data reported was not used to generate the iso-concentration contour.
7. Property Boundary Provided by Southern Company Services.
8. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 300 600
Scale in Feet

ISO-CONCENTRATION MAP, SELENIUM - AUGUST 2024

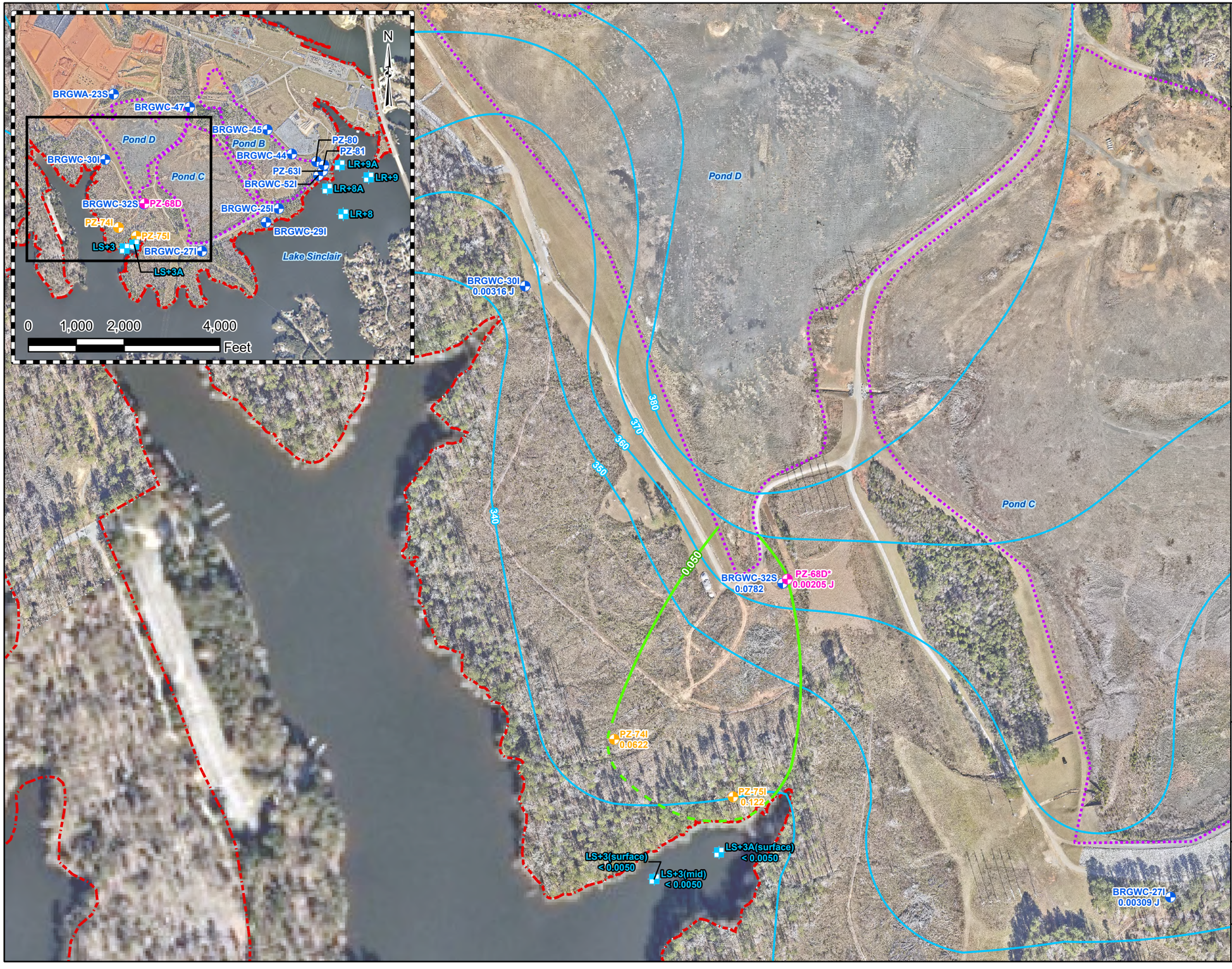
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 5



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Surface Water Sample Point
- Groundwater Elevation Iso-Contour (February 2025)
- 0.050 Selenium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the February 2025, semiannual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on February 17, 2025.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standards (GWPS) for selenium is 0.050 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 300 600
Scale in Feet

ISO-CONCENTRATION MAP, SELENIUM - FEBRUARY 2025

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 6

APPENDIX A

Well Design, Installation, and Development Report

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

WELL DESIGN, INSTALLATION, AND DEVELOPMENT REPORT

PLANT BRANCH ASH PONDS B, C, & D (AP-BCD)

Prepared by

Geosyntec consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW11514

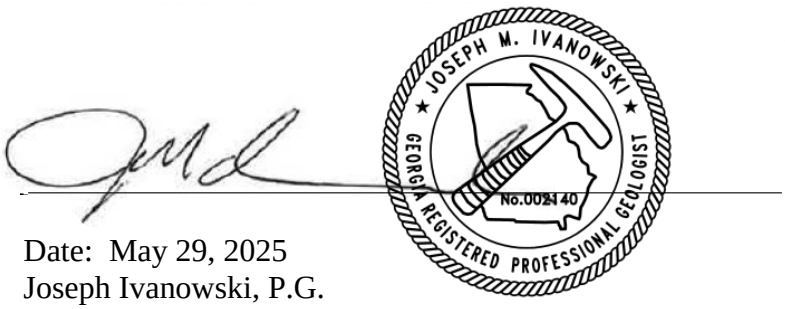
May 2025

Georgia Power

CERTIFICATION PAGE

I hereby certify that this *Well Design, Installation, and Development Report – Plant Branch AP-BCD* has been prepared by, or under the direct supervision of, a Qualified Groundwater Scientist with Geosyntec Consultants and is in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically §257.91(e)(1), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

According to 391-3-4-.01, a Qualified Groundwater Scientist is "a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action."



Date: May 29, 2025
Joseph Ivanowski, P.G.
Georgia Professional Geologist No. 2140
Senior Geologist
Geosyntec Consultants

Geosyntec consultants

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LIST OF ACRONYMS

AP	Ash Pond
ACC	Atlantic Coast Consulting
ASTM	American Society for Testing and Materials
CCR	coal combustion residuals
CFR	Code of Federal Regulations
CFS	Civil Field Services
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
NAD	North America Datum
NAVD	North American Vertical Datum
NSF	National Sanitation Foundation
ORP	oxygen reduction potential
PVC	polyvinyl chloride
SCS	Southern Company Services
TOC	top of casing
US EPA	United States Environmental Protection Agency

1. INTRODUCTION

Georgia Power Company's (Georgia Power) Plant Branch (Plant) is located in Putnam County near Milledgeville and Eatonton, Georgia. Over the course of power generation at the Plant, five Coal Combustion Residuals (CCR) ponds, identified as Ash Ponds A, B, C, D, and E were utilized. Ash Ponds B, C, and D (Site) are monitored collectively as a single groundwater monitoring unit (AP-BCD). This report provides details regarding the design, installation, and development of two (2) detection monitoring wells (PZ-80, and PZ-81), to supplement the current network of detection monitoring wells, assessment monitoring wells, and piezometers at AP-BCD. These newly installed detection monitoring wells are located near AP-B and are shown on **Figure 1**.

The well installations were completed to meet the requirements promulgated in the United States Environmental Protection Agency (US EPA) CCR rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the *Manual for Groundwater Monitoring* (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of Aiken, South Carolina. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. Southern Company Services (SCS) Civil Field Services (CFS) personnel provided oversight of the drilling and installation efforts. A geologist under the supervision of a professional geologist (PG) registered to practice in the State of Georgia, both of whom are employed with Geosyntec Consultants (Geosyntec), documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, groundwater elevations, and other field activities.

PZ-80 and PZ-81 were installed and completed in March 2025. The locations of these wells are shown on **Figure 1**. Well construction details are provided in **Table 1** and boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

The boreholes were advanced using rotasonic drilling techniques with continuous core collection. A track mounted Terra Sonic 150CC drill rig was used to install the wells, using a nominal 6-inch diameter outer drill casing and a 4-inch diameter core barrel. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities.

2.2 Screened Interval

Details regarding well screened intervals are provided in **Table 1**. Wells are screened in the uppermost water bearing unit of the Site. The wells are screened from approximately 344 to 330 feet elevation [referenced to the North American Vertical Datum of 1988 (NAVD 88)]. All wells are constructed with a 10-foot well screen segment.

2.3 Well Casings and Screens

The wells are constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. The wells were installed with a 10-foot nominal length U-Pack® dual-wall well screen with 0.010-inch slots. The casing and screen

arrived pre-cleaned and packaged by the manufacturer. The U-Pack well screen was constructed onsite by packing sand between slotted PVC and the well screen. Well construction materials are sufficiently durable to resist chemical and physical degradation and do not interfere with the quality of groundwater samples. Casing and screen are flush-threaded. Solvent or glue was not used to construct the wells. A threaded bottom cap was attached to the bottom of the screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Details regarding well screened intervals are provided in **Table 1**.

2.4 Well Intake Design

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the well; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screen was filled to minimize passage of formation materials into the well. A filter pack of clean, well-rounded, quartz sand was installed in the well. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite manufactured by Southern Products and Silica Co. was used as the filter pack material for the well. The filter pack material meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the U-Pack well screen and in the annular space between the outside of the screen and the borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. Placement of the filter pack between the borehole wall and PVC was placed via gravity-pouring. Filter pack material placed in the annular space outside of the well screen extended a minimum of two (2) feet above the top of screen. No bridging occurred during filter pack placement.

Upon placement of the filter pack, the wells were pumped with a submersible pump to ensure settlement of the filter pack. The top of filter pack depth was measured following pumping to confirm appropriate extension of filter sand above the screen. The depths of top of filter pack were measured and recorded on the well construction logs provided in **Appendix B**.

2.6 Annular Seal

A minimum of two feet of bentonite chips (PelPlug non-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacturer's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. In cases where the bentonite seal extended above the estimated water table surface, the bentonite was hydrated with potable water for a duration meeting the manufacturer's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with bentonite grout placed via tremie pipe (initial grouting) and direct pour methods (for topping off) from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 4-feet by 4-feet by 4-inches was poured around the wells. The pads were mounded slightly outward to direct surface drainage away from the wells.

2.7 Cap and Protective Casing

The well risers were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipe to provide an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pads to protect the wells.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The wells were clearly marked with the proper well identification number on the stand-up casing.

3. WELL DEVELOPMENT

The monitoring wells were developed by Atlantic Coast Consulting (ACC) using a combination of surging and pumping to (i) restore the natural hydraulic conductivity of the formation, and (ii) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The wells were alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, specific conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that each well was fully developed, and field parameters were stabilized. Initial development of wells PZ-80 and PZ-81 was conducted on April 3, 2025. At that time, PZ-81 met development criteria, but PZ-80 purged dry before achieving turbidity and stabilization requirements and did not sufficiently recharge to complete development. ACC resumed development of PZ-80 on May 12, 2025. Due to low yield following initial surging and purging, 2.10 gallons of deionized water were added to facilitate the removal of fine-grained sediment. After purging approximately 3 gallons, low-flow purging resumed, and turbidity and stabilization parameters were recorded. ACC returned the following day to confirm turbidity and field parameter stabilization. The well development field forms provided by ACC are included in **Appendix C**.

4. SURVEY

Upon completion of the well installations, horizontal locations and vertical elevations were surveyed by Thompson Engineering, a Georgia-licensed surveyor and certified on April 14, 2025. The top of the PVC well casings [top of casing (TOC) elevations] and the survey pin installed at the well pads were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data are provided in the well construction table (**Table 1**). A copy of the certified well survey data for the wells is provided in **Appendix D**.

5. REFERENCES

Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.

Geosyntec, 2023. *Groundwater Monitoring Plan – Plant Branch Ash Pond B, Ash Pond C, Ash Pond D (AP-BCD)*. July 2023 revision.

United States Environmental Protection Agency, 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA–2009–0640; FRL–9919–44–OSWER]. RIN–2050–AE81, April 2015.

TABLE

Table 1
Summary of Well Construction Details
Plant Branch AP-BCD
Putnam County, Georgia

Well ID	Ash Pond	Installation Date	Northing [1]	Easting [1]	Ground Surface Elevation [2] (ft NAVD88)	Top of Casing Elevation (ft NAVD88)	Top of Screen Elevation (ft NAVD88)	Bottom of Screen Elevation (ft NAVD88)	Well Depth (ft bgs) [3]
PZ-80	AP-B	3/18/2025	1161564.13	2562102.23	379.10	382.24	344.10	334.10	45.43
PZ-81	AP-B	3/12/2025	1161492.93	2562260.71	378.66	381.86	340.76	330.76	48.20

Notes:
AP = ash pond
ID = identification
ft = feet
bgs = below ground surface
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by Thompson Engineering and certified April 14, 2025.
(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad. Survey was completed by Thompson Engineering and certified April 14, 2025.
(3) Total well depth accounts for a 0.43-ft sump at PZ-80 and 0.30-ft sump at PZ-81.

FIGURE



N

LEGEND

- Newly Installed Detection Monitoring Well
- Detection Monitoring Well
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Ash Pond BCD Permit Boundary

Notes:
1. Detection Monitoring Wells PZ-80 and PZ-81 were installed between March 12 and 18, 2025.
2. Property Boundary Provided by Southern Company Services.
3. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 350 700
Scale in Feet

AP-B
GROUNDWATER MONITORING WELL NETWORK MAP

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | MAY 2025

FIGURE 1

APPENDIX A

Well Driller Performance Bonds

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars ($30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By _____
ATTORNEY-IN-FACT Carlos A. Albelo

intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2026

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

APPENDIX B

Boring and Well Construction Logs

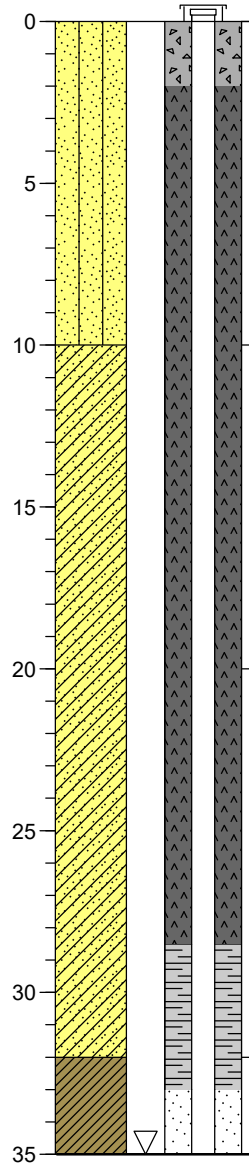
Geosyntec consultants
engineers | scientists | innovators

Client: Southern Company Services - Plant Branch
Project: Plant Branch Well Installation
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG

Well No. PZ-80
Page: 1 of 2

Drilling Start Date:	3/18/2025	Boring Depth (ft):	60	Well Depth (ft bgs):	45.4
Drilling End Date:	3/18/2025	Boring Diameter (in):	4", 6"	Well Diameter (in):	2
Drilling Company:	Cascade Drilling	Sampling Method(s):	Core Barrel	Screen Slot (in):	0.010
Drilling Method:	Sonic	DTW During Drilling (ft):	35.0	Riser Material:	Sch 40 PVC
Drilling Equipment:	Terra Sonic 150CC	Ground Surface Elev.:	379.10 NAV88	Screen Material:	Sch 40 PVC Slotted
Driller:	J. Hall, C. Franklin	Top of Casing Elev.:	382.24 NAV88	Seal Material(s):	Grout/Bentonite
Logged By:	T. Kessler	North, East (Y,X):	1161564.13, 2562102.23	Filter Pack:	#20/40 Sand



DEPTH (ft)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft MSL)
0	(0') Silty SAND (SM); brown, dry to moist, loose, medium to fine grained, subrounded to subangular, micaceous throughout.	Hand augered material from 0-10 ft bgs. Large gravel; suspect blasting debris.	
	(2') Abundant subangular coarse gravel from 2-3 ft bgs.		
5	(5') Trace fine angular gravel from 5-10 ft bgs.		
10	(10') Clayey SAND (SC); dark brown, moist, loose, medium to fine grained, subangular, abundant silt throughout, micaceous, trace medium angular gravel.		
15	(15') Medium plasticity sandy clay from 15-15.5 ft bgs.		
	(16.8') Medium plasticity sandy clay from 16.8-17 ft bgs.		
20	(20') Clayey SAND (SC); strong brown, moist, loose, low plasticity fines, medium to fine grained, subrounded to subangular, abundant silt, micaceous, trace rounded fine gravel throughout.		
25			
30	(30') Same as above.		
	(32') Sandy CLAY (CL); yellowish red, moist, firm, medium plasticity, trace fine angular gravel, trace dark gray PWR and gneissic gravel at 32 ft bgs.	Suspect native interface.	
35			

NOTES: Boring hand augered from 0-10 ft below ground surface (bgs). Boring backfilled with bentonite to 46.5 ft bgs. Wells completed with aluminum stickup protective well cover set in concrete. Total well depth includes 0.43 ft sump.

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Client: Southern Company Services - Plant Branch
Project: Plant Branch Well Installation
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-80
Page: 2 of 2

Drilling Start Date:	**3/18/2025**	Boring Depth (ft):	**60**	Well Depth (ft bgs):	**45.4**
Drilling End Date:	**3/18/2025**	Boring Diameter (in):	**4", 6"**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic**	DTW During Drilling (ft):	**35.0**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**Terra Sonic 150CC**	Ground Surface Elev.:	**379.10 NAV88**	Screen Material:	**Sch 40 PVC Slotted**
Driller:	**J. Hall, C. Franklin**	Top of Casing Elev.:	**382.24 NAV88**	Seal Material(s):	**Grout/Bentonite**
Logged By:	**T. Kessler**	North, East (Y,X):	**1161564.13, 2562102.23**	Filter Pack:	**#20/40 Sand**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft MSL)
35				(36') Silty SAND (SM); brown, moist, loose, medium to fine grained, subrounded to subangular, trace medium plasticity clay throughout, micaceous. (38.8') Trace relict rock structures from 38.8-38.9 ft bgs.	Driller reports hard clay or silt material in hole. **Filter pack:** 4 50-lbs bags of 20/40 sand equating to 2.2 cubic feet in volume. **Top Seal:** One five-gallon bucket of bentonite pellets equating to 0.70 cubic feet in volume. **Grout Seal:** AquaGuard bentonite grout	
40				(40') Sandy CLAY (CL); moist, loose sand, soft clay, medium to low plasticity, medium to fine grained, subrounded to subangular, micaceous, abundant fine rounded gravel.		
45				(44.5') Fat CLAY (CH); dark red, dry to moist, firm, medium to high plasticity, abundant silt, micaceous, abundant biotite, trace fine sands and organic material throughout.		
50				(51') No recovery.		
55						
60				(60') Boring terminated.		

NOTES: Boring hand augered from 0-10 ft below ground surface (bgs). Boring backfilled with bentonite to 46.5 ft bgs. Wells completed with aluminum stickup protective well cover set in concrete. Total well depth includes 0.43 ft sump.

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Client: Southern Company Services - Plant Branch
Project: Plant Branch Well Installation
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG

Well No. PZ-81
Page: 1 of 2

Drilling Start Date:	3/12/2025	Boring Depth (ft):	48.8	Well Depth (ft bgs):	48.2
Drilling End Date:	3/13/2025	Boring Diameter (in):	4", 6"	Well Diameter (in):	2
Drilling Company:	Cascade Drilling	Sampling Method(s):	Core Barrel	Screen Slot (in):	0.010
Drilling Method:	Sonic	DTW During Drilling (ft):	36.0	Riser Material:	Sch 40 PVC
Drilling Equipment:	Terra Sonic 150CC	Ground Surface Elev.:	378.66 NAV88	Screen Material:	Sch 40 PVC Slotted
Driller:	J. Hall, C. Franklin	Top of Casing Elev.:	381.86 NAV88	Seal Material(s):	Grout/Bentonite
Logged By:	A. Acree	North, East (Y,X):	1161492.93, 2562260.71	Filter Pack:	#20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft MSL)
0				(0') Silty SAND (SM); brown, moist, loose to dense, some soft to firm sandy clay throughout, trace angular fine gravel throughout, trace organics throughout.	Hand augered material from 0-10 ft bgs.	
10				(10') Silty SAND (SM); reddish brown, moist to dry, loose to dense, some soft sandy clay throughout.		
20				(20') Clayey SAND (SC); reddish brown, moist to dry, loose, micaceous, trace gravel and silts throughout.		
30				(30') Silty SAND (SM); brown, firm, micaceous, some silty sands throughout, PWR at 37 ft bgs.	Hard to drill.	
35						

NOTES: Boring hand augered from 0-10 ft below ground surface (bgs). Wells completed with aluminum stickup protective well cover set in concrete. Total well depth includes 0.3 ft sump.

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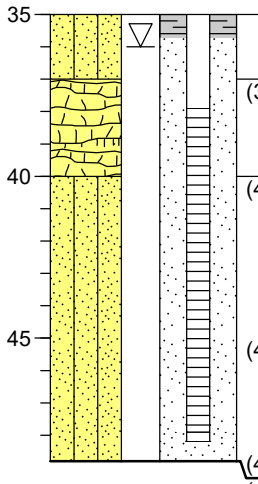
Client: Southern Company Services - Plant Branch
Project: Plant Branch Well Installation
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG

Well No. PZ-81
Page: 2 of 2

Drilling Start Date:	**3/12/2025**	Boring Depth (ft):	**48.8**	Well Depth (ft bgs):	**48.2**
Drilling End Date:	**3/13/2025**	Boring Diameter (in):	**4", 6"**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic**	DTW During Drilling (ft):	**36.0**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**Terra Sonic 150CC**	Ground Surface Elev.:	**378.66 NAV88**	Screen Material:	**Sch 40 PVC Slotted**
Driller:	**J. Hall, C. Franklin**	Top of Casing Elev.:	**381.86 NAV88**	Seal Material(s):	**Grout/Bentonite**
Logged By:	**A. Acree**	North, East (Y,X):	**1161492.93, 2562260.71**	Filter Pack:	**#20/40 Sand**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft MSL)



(37') PARTIALLY WEATHERED ROCK (PWR).

(40') Silty SAND (SM); reddish brown to gray, moist, loose to dense sand, micaceous.

(45') Pulverized rock and PWR encountered.

(48.5') Bedrock encountered.

(48.8') Boring terminated.

Filter pack: 4.5 50-lbs bags of 20/40 sand equating to 2.48 cubic feet in volume.

Top Seal: One five-gallon bucket of bentonite pellets equating to 0.70 cubic feet in volume.

Grout Seal: AquaGuard bentonite grout

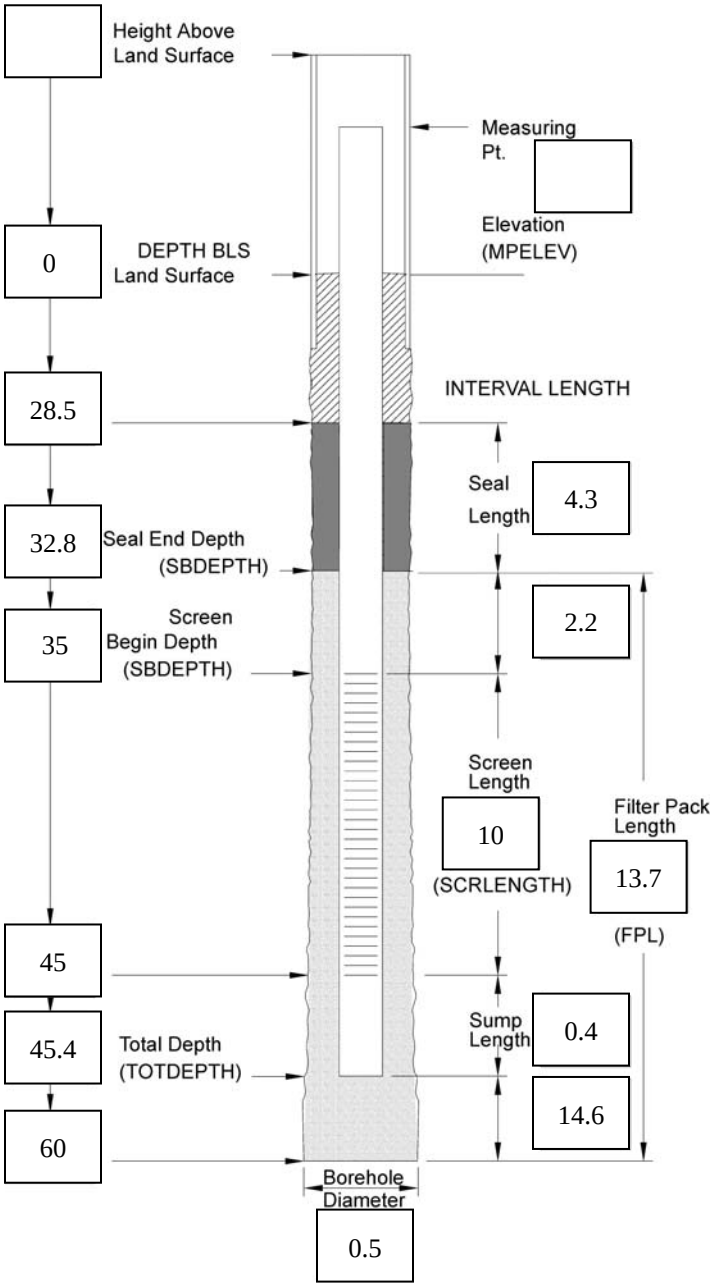
NOTES: Boring hand augered from 0-10 ft below ground surface (bgs). Wells completed with aluminum stickup protective well cover set in concrete. Total well depth includes 0.3 ft sump.

WELL CONSTRUCTION LOG
ABOVE GROUND COMPLETION

Well I.D.: PZ-80

Drilling Company: Cascade
Drillers: C. Franklin/ T. Hall
Geologist/Engineer: T. Kessler
Signature: Thomas Kessler

Site: Plant Branch
Project Number: GW11514
Installation Method: Sonic
Casing Installation Date: 03/18/2025
Well Type: Monitoring well
Well Completion Method: Stick up
Geologic Completion Zone: Overburden



Well Completion
Guard Posts **YES** Date: 03/19/2025
Surface Pad Size: 4 ft x 4 ft
Protective Casing or Cover
Diameter/Type: 4' aluminum
Depth BGS: 1' Weep Hole **YES**
Grout
Composition/Proportions: Aquaguard bentonite grout
Placement Method: tremmie

Seal Date: 03/18/2025
Type: 3/8 uncoated bentonite chips/ Pelplug
Source: Pelplug - 5 gal bucket
Set-up/Hydration Time: 2 hours
Placement Method: direct pour
Vol. Fluid Added:
Filter Pack
Type: 20/40 silica sand
Source: 50 lb bag-Southern Products
Amount Used: 4 bags
Placement Method: direct pour
Well Riser Pipe
Casing Material: SCH40 PVC
Casing Inside Diameters: 2 in.
Screen
Material: SCH40 PVC
Inside Diameter: 2 in.
Screen Slot Size: 0.010 in.
Percent Open Area: -
Sump or Bottom Cap **YES**
Type/Length: 4" PVC
Backfill Plug YES
Material: sand
Placement Method: direct pour
Set-up/Hydration Time: N/A
Total Water Volume During Construction
Introduced (Gal): 250 Recovered (Gal): ~250
Reviewed
By: J. Ivanowski Date: 4/21/2025

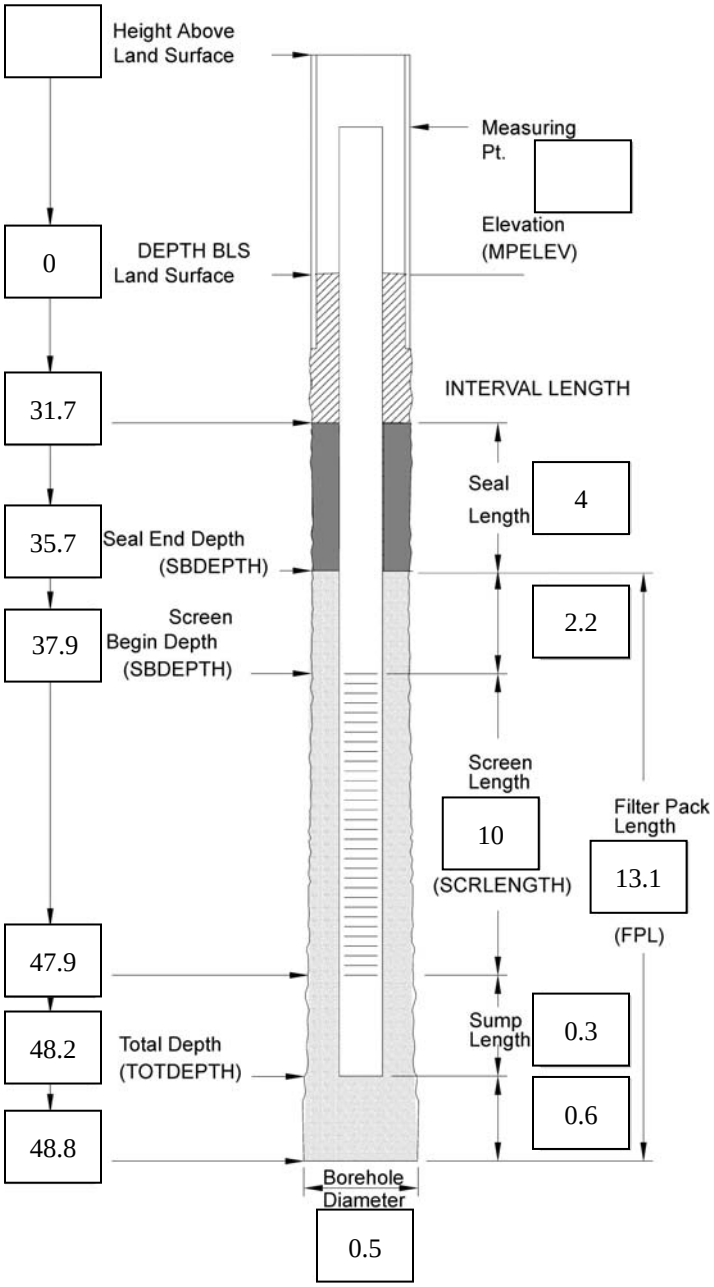
Comments
1.1 ft of sand was laid under the sump.
Hydrated bentonite was placed from 45.5 to 60 ft bgs.

WELL CONSTRUCTION LOG
ABOVE GROUND COMPLETION

Well I.D.: PZ-81

Drilling Company: Cascade
Drillers: C. Franklin/ T. Hall
Geologist/Engineer: A.Acree
Signature:

Site: Plant Branch
Project Number: GW11514
Installation Method: Sonic
Casing Installation Date: 03/12/2025
Well Type: Monitoring well
Well Completion Method: Stick up
Geologic Completion Zone: Overburden



Comments

Well Completion
Guard Posts **YES** Date: 03/13/2025
Surface Pad Size: 4 ft x 4 ft
Protective Casing or Cover
Diameter/Type: 4' aluminum
Depth BGS: 2' Weep Hole **YES**
Grout
Composition/Proportions: Aquaguard bentonite grout
Placement Method: tremmie

Seal Date: 03/12/2025
Type: 3/8 uncoated bentonite chips/ Pelplug
Source: Pelplug - 5 gal bucket
Set-up/Hydration Time: 2 hours
Placement Method: direct pour
Vol. Fluid Added: -
Filter Pack
Type: 20/40 silica sand
Source: Southern Products-50 lb bag
Amount Used: 4.5 bags
Placement Method: direct pour
Well Riser Pipe
Casing Material: SCH40 PVC
Casing Inside Diameters: 2 in.
Screen
Material: SCH40 PVC
Inside Diameter: 2 in.
Screen Slot Size: 0.010 in.
Percent Open Area: -
Sump or Bottom Cap **YES**
Type/Length: PVC 4"
Backfill Plug YES
Material: sand
Placement Method: direct pour
Set-up/Hydration Time: N/A
Total Water Volume During Construction
Introduced (Gal): 150 Recovered (Gal): ~100
Reviewed
By: J.Ivanowski Date: 4/21/2025

APPENDIX C

Well Development and Equipment Calibration Forms

Atlantic Coast Consulting, Inc.
Well Development Field Record

Job Name: Plant Branch Pond B Developments
Developed By: T. Goble
Started Dev. 4-3-25 / 1210 (Date / Time)
W.L. Before Dev. 35.18 / 4-3-25 / 1100 (BTOC / Date / Time)
Well Depth Before Dev.: 47.81 BTOC
Water Column (H): 12.63 Ft. Well Dia.: 2 In.

Job No. ✓ Well ID PZ-80
Date of Installation: March 2025 Sheet 1 of 1
Completed Dev. 4-3-25 / 1640 (Date / Time)
W.L. After Dev. 45.92 / 4-3-25 / 1640 (BTOC / Date / Time)
Well Depth After Dev.: 47.82 BTOC
Well Volume: 2.02 Gal. Screen Length: 10 Ft.

Date / Time	Volume Removed (Gal.)	Water Level (BTOC)	Field Parameters: pH (S.U.)	Specific Cond. (umhos/cm)	DO mg/L	Turbidity (NTU)	Temperature (°C)	ORP	Remarks
4-3-25/1215	0.50	39.52	7.83	601	2.2	>1000+	25.35	165	200 ml/min
1240	1.50	44.22	7.72	627	2.5	>1000+	25.84	173	200ml/min
↓ 1620	3.50	45.61	7.61	636	2.9	>1000+	26.22	188	Bailer
Total Volume Removed:	3.75 Gal - purged dry								

Development Method: Surged w/ surge block + rigid tubing for 20 mins (1105-1125). Pumping w/ whale pump began at ~~1150~~ 1210. Purged dry at 1250 (WL 46.21). Water level returned to 35.77' @ 1600 upon return. Purged dry again @ 1625 (WL 46.37'). By 1640 WL was 45.92. Recharging ~ 0.15' per 5 minutes or ~1.8 feet per hour.

Notes:
H = well depth (BTOC) - W.L. (BTOC)
2" diameter well: 0.16 X H = volume in gallons
4" diameter well: 0.66 X H = voume in gallons

Recharge notes

Time		WL	notes
1250	Dry	46.21	purged dry
1600		35.77	

* well mostly recovered in ~~3~~ hours

Atlantic Coast Consulting, Inc.
Well Development Field Record

Job Name: Plant Brannch AP-B Development | Job No. | Well ID PZ-80

Developed By: D. Johnson | Date of Installation: 3/1/2025 | Sheet 1 of 1

Started Dev. 5/12/2025 / 0930 (Date / Time) | Completed Dev. 5/13/2025 / 0916 (Date / Time)

W.L. Before Dev. 34.68ft / 5/12/2025 / 0858 (BTOC / Date / Time) | W.L. After Dev. 37.53 / 5/13/2025 / 0910 (BTOC / Date / Time)

Well Depth Before Dev.: 47.81 ft BTOC | Well Depth After Dev.: 47.94 ft BTOC

Water Column (H): 13.13 Ft. | Well Dia.: 2 In. | Well Volume: 2.10 Gal. | Screen Length: 10 Ft.

Date / Time	Volume Removed (Gal.)	Water Level (BTOC)	Field Parameters						Remarks
			pH (S.U.)	Specific Cond. (µS/cm)	DO mg/L	Turbidity (NTU)	Temperature (°C)	ORP (mV)	
5/12/2025									
9:30	50mL/min	34.87	7.29	611.00	3.20	16	21.70	161.0	
9:40	50mL/min	35.02	7.31	589.00	1.70	202	21.10	163.0	
9:45	50mL/min	35.25	7.32	585.00	1.40	217.0	21.95	158	
1058-1113	SURGE AND PURGE DRY WITH PBP								
12:16	ADD 2.10 GALLONS OF DI WATER								
1216-1300	PURGE DRY WITH PBP								1300-1500 allow for recharge
15:10	75 mL/min	40.02	7.65	809.00	5.90	1000.0	26.40	136.0	
16:55	50mL/min	40.45	stop digital log, site closing						
5/13/2025									
8:21	50mL/min	37.51	6.77	748.00	2.90	6.8	23.60	131.0	
9:06	50mL/min	37.53	6.87	670.00	2.00	3.8	24.90	97.2	
Total Volume Removed:	21.08 Gallons								

Development Method: started digital log with PBP at 50 mL/min, then 75mL, then 100mL to see turbidity trend and max recharge rate (between 60-75mL/mi

Surged with rigid tubing for apprx. 15 minuts, then purged dry with pbp. Then added 2.10 gallons DI water and purged that out.

Allowed 2 hours for well to recharged, then slow purge through the night to allow turbidity to fall. Return 5/13/2025 to collect good readings.

Notes:
- H = well depth (BTOC) - W.L. (BTOC)
- 2" diameter well: 0.16 X H = volume in gallons
- BTOC = Below top of casing
- W.L. = Water Level
- DO = Dissolved oxygen
- ORP = Oxidation reduction potential
- S.U. = Standard Units
- mV = millivolts
- µS/cm = microsiemens per centimeters
- Ft. = feet
- in. inch
- Gal. = Gallons
- NTU = Nephelometric turbidity units
- °C = Degrees celsius
- mg/L = milligrams per liter

Low-Flow Test Report:

Test Date / Time: 5/12/2025 9:35:26 AM
Project: Plant Branch AP-B Development
Operator Name: D. Johnson

Location Name: PZ-80 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.81 ft** **Total Depth: 47.81 ft** **Initial Depth to Water: 34.68 ft**	**Pump Type: Portable bladder pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 45 ft** **Estimated Total Volume Pumped: 5.375 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 75 ml/min** **Final Draw Down: 39.24 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Preliminary purge to see max recharge rate and turbidity.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
5/12/2025 9:35 AM	00:00	7.29 pH	21.72 °C	611.07 µS/cm	3.22 mg/L	15.80 NTU	161.5 mV	34.87 ft	50.00 ml/min
5/12/2025 9:40 AM	05:00	7.31 pH	21.17 °C	589.02 µS/cm	1.75 mg/L	202.00 NTU	163.6 mV	35.02 ft	50.00 ml/min
5/12/2025 9:45 AM	10:00	7.32 pH	20.95 °C	585.63 µS/cm	1.44 mg/L	217.00 NTU	158.5 mV	35.23 ft	50.00 ml/min
5/12/2025 9:50 AM	15:00	7.31 pH	21.12 °C	586.23 µS/cm	1.33 mg/L	247.00 NTU	171.5 mV	35.41 ft	50.00 ml/min
5/12/2025 9:55 AM	20:00	7.30 pH	21.02 °C	578.85 µS/cm	1.14 mg/L	279.00 NTU	164.0 mV	35.68 ft	50.00 ml/min
5/12/2025 10:00 AM	25:00	7.28 pH	21.06 °C	575.09 µS/cm	1.05 mg/L	299.00 NTU	167.6 mV	36.03 ft	100.00 ml/min
5/12/2025 10:05 AM	30:00	7.23 pH	21.11 °C	566.56 µS/cm	0.97 mg/L	312.00 NTU	167.4 mV	36.17 ft	100.00 ml/min
5/12/2025 10:10 AM	35:00	7.22 pH	20.65 °C	565.16 µS/cm	0.79 mg/L	182.00 NTU	163.2 mV	36.35 ft	100.00 ml/min
5/12/2025 10:15 AM	40:00	7.18 pH	20.54 °C	554.98 µS/cm	0.62 mg/L	136.00 NTU	166.8 mV	36.61 ft	100.00 ml/min
5/12/2025 10:20 AM	45:00	7.17 pH	20.50 °C	547.65 µS/cm	0.56 mg/L	128.00 NTU	168.3 mV	36.98 ft	100.00 ml/min
5/12/2025 10:25 AM	50:00	7.17 pH	20.49 °C	547.79 µS/cm	0.51 mg/L	112.00 NTU	171.0 mV	37.24 ft	100.00 ml/min
5/12/2025 10:30 AM	55:00	7.18 pH	20.46 °C	552.42 µS/cm	0.50 mg/L	107.00 NTU	172.5 mV	37.57 ft	75.00 ml/min
5/12/2025 10:35 AM	01:00:00	7.18 pH	20.58 °C	554.56 µS/cm	0.50 mg/L	105.00 NTU	173.7 mV	37.78 ft	75.00 ml/min
5/12/2025 10:40 AM	01:05:00	7.17 pH	20.66 °C	557.46 µS/cm	0.52 mg/L	87.50 NTU	169.8 mV	37.84 ft	75.00 ml/min
5/12/2025 10:45 AM	01:10:00	7.17 pH	20.86 °C	563.86 µS/cm	0.58 mg/L	93.10 NTU	170.4 mV	37.95 ft	75.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/12/2025 3:10:47 PM
Project: Plant Branch AP-B Development
Operator Name: D. Johnson

Location Name: PZ-80 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.81 ft** **Total Depth: 47.81 ft** **Initial Depth to Water: 40.02 ft**	**Pump Type: Portable bladder pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 45 ft** **Estimated Total Volume Pumped: 7.87 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 75 ml/min** **Final Draw Down: 5.16 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Site closing. Will leave pump running overnight at 50mL/min to reduce turbidity. Will return 5/13/2025.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
5/12/2025 3:10 PM	00:00	7.65 pH	26.43 °C	809.97 µS/cm	5.98 mg/L	1,000.00 NTU	136.1 mV	40.02 ft	75.00 ml/min
5/12/2025 3:15 PM	05:00	7.61 pH	24.88 °C	721.30 µS/cm	5.98 mg/L	54.90 NTU	130.1 mV	40.51 ft	75.00 ml/min
5/12/2025 3:20 PM	10:00	7.60 pH	25.20 °C	707.35 µS/cm	5.75 mg/L	42.70 NTU	130.1 mV	40.43 ft	75.00 ml/min
5/12/2025 3:25 PM	15:00	7.60 pH	24.83 °C	689.73 µS/cm	5.58 mg/L	39.40 NTU	130.0 mV	40.43 ft	75.00 ml/min
5/12/2025 3:30 PM	20:00	7.60 pH	24.20 °C	675.26 µS/cm	5.42 mg/L	35.10 NTU	130.0 mV	40.44 ft	75.00 ml/min
5/12/2025 3:35 PM	25:00	7.61 pH	24.25 °C	671.30 µS/cm	5.38 mg/L	32.80 NTU	129.6 mV	40.45 ft	75.00 ml/min
5/12/2025 3:40 PM	30:00	7.59 pH	24.80 °C	663.42 µS/cm	5.24 mg/L	33.50 NTU	128.6 mV	40.45 ft	75.00 ml/min
5/12/2025 3:45 PM	35:00	7.57 pH	24.86 °C	658.20 µS/cm	5.15 mg/L	31.20 NTU	129.6 mV	40.45 ft	75.00 ml/min
5/12/2025 3:50 PM	40:00	7.53 pH	25.07 °C	656.17 µS/cm	5.07 mg/L	28.80 NTU	131.2 mV	40.45 ft	75.00 ml/min
5/12/2025 3:55 PM	45:00	7.45 pH	24.95 °C	654.74 µS/cm	5.00 mg/L	27.50 NTU	134.9 mV	40.45 ft	75.00 ml/min
5/12/2025 4:00 PM	50:00	7.35 pH	24.70 °C	652.52 µS/cm	4.93 mg/L	27.10 NTU	140.7 mV	40.45 ft	75.00 ml/min
5/12/2025 4:05 PM	55:00	7.35 pH	24.73 °C	650.92 µS/cm	4.82 mg/L	24.50 NTU	140.3 mV	40.45 ft	75.00 ml/min
5/12/2025 4:10 PM	01:00:00	7.32 pH	24.92 °C	653.66 µS/cm	4.76 mg/L	22.80 NTU	141.4 mV	40.45 ft	75.00 ml/min
5/12/2025 4:15 PM	01:05:00	7.27 pH	24.12 °C	647.92 µS/cm	4.69 mg/L	21.80 NTU	143.3 mV	40.45 ft	75.00 ml/min
5/12/2025 4:20 PM	01:10:00	7.19 pH	23.74 °C	649.89 µS/cm	4.62 mg/L	20.70 NTU	147.0 mV	40.45 ft	75.00 ml/min

5/12/2025 4:25 PM	01:15:00	7.12 pH	23.23 °C	642.25 µS/cm	4.53 mg/L	19.90 NTU	149.1 mV	40.45 ft	75.00 ml/min
5/12/2025 4:30 PM	01:20:00	7.09 pH	23.16 °C	644.93 µS/cm	4.45 mg/L	19.40 NTU	150.0 mV	40.45 ft	75.00 ml/min
5/12/2025 4:35 PM	01:25:00	7.08 pH	23.32 °C	647.19 µS/cm	4.41 mg/L	19.30 NTU	149.0 mV	40.45 ft	75.00 ml/min
5/12/2025 4:40 PM	01:30:00	7.07 pH	23.55 °C	648.93 µS/cm	4.33 mg/L	19.00 NTU	149.0 mV	40.45 ft	75.00 ml/min
5/12/2025 4:45 PM	01:35:00	7.06 pH	23.64 °C	648.63 µS/cm	4.25 mg/L	16.30 NTU	148.1 mV	40.45 ft	75.00 ml/min
5/12/2025 4:50 PM	01:40:00	7.06 pH	23.81 °C	649.80 µS/cm	4.19 mg/L	18.50 NTU	147.5 mV	40.45 ft	75.00 ml/min
5/12/2025 4:55 PM	01:45:00	7.06 pH	23.60 °C	647.08 µS/cm	4.14 mg/L	18.20 NTU	144.9 mV	40.45 ft	75.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/13/2025 8:21:26 AM
Project: Plant Branch AP-B Development
Operator Name: D. Johnson

Location Name: PZ-80 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.81 ft** **Total Depth: 47.81 ft** **Initial Depth to Water: 37.51 ft**	**Pump Type: Portable bladder pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 45 ft** **Estimated Total Volume Pumped: 2.25 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 0.24 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Final development log.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
5/13/2025 8:21 AM	00:00	6.77 pH	23.69 °C	748.66 µS/cm	2.99 mg/L	6.78 NTU	131.1 mV	37.51 ft	50.00 ml/min
5/13/2025 8:26 AM	05:00	6.65 pH	23.93 °C	760.49 µS/cm	2.56 mg/L	5.67 NTU	130.4 mV	37.52 ft	50.00 ml/min
5/13/2025 8:31 AM	10:00	6.81 pH	24.01 °C	742.00 µS/cm	2.37 mg/L	4.88 NTU	117.5 mV	37.52 ft	50.00 ml/min
5/13/2025 8:36 AM	15:00	6.93 pH	23.88 °C	700.08 µS/cm	2.18 mg/L	4.73 NTU	102.3 mV	37.53 ft	50.00 ml/min
5/13/2025 8:41 AM	20:00	6.90 pH	23.93 °C	678.82 µS/cm	2.13 mg/L	4.64 NTU	101.7 mV	37.53 ft	50.00 ml/min
5/13/2025 8:46 AM	25:00	6.90 pH	23.91 °C	666.94 µS/cm	2.12 mg/L	4.55 NTU	99.5 mV	37.53 ft	50.00 ml/min
5/13/2025 8:51 AM	30:00	6.89 pH	24.81 °C	674.48 µS/cm	2.08 mg/L	4.28 NTU	101.7 mV	37.53 ft	50.00 ml/min
5/13/2025 8:56 AM	35:00	6.88 pH	24.85 °C	673.11 µS/cm	2.06 mg/L	4.07 NTU	99.0 mV	37.53 ft	50.00 ml/min
5/13/2025 9:01 AM	40:00	6.87 pH	24.94 °C	668.96 µS/cm	2.05 mg/L	3.91 NTU	99.1 mV	37.53 ft	50.00 ml/min
5/13/2025 9:06 AM	45:00	6.87 pH	24.96 °C	670.59 µS/cm	2.05 mg/L	3.80 NTU	97.2 mV	37.53 ft	50.00 ml/min

Samples

Sample ID:	Description:

Atlantic Coast Consulting, Inc.
Well Development Field Record

Job Name: Plant Branch Pond B Developments
Job No. ✓ Well ID PZ-81
Developed By: T. Goble
Date of Installation: March 2025 Sheet 1 of 1
Started Dev. 4-3-25 / 1340 (Date / Time)
Completed Dev. 4-3-25 / 1530 (Date / Time)
W.L. Before Dev. 39.56 / 4-3-25 / 1310 (BTOC / Date / Time)
W.L. After Dev. 42.21 / 4-3-25 / 1540 (BTOC / Date / Time)
Well Depth Before Dev.: 51.53 BTOC
Well Depth After Dev.: 51.55 BTOC
Water Column (H): 11.97 Ft. Well Dia.: 2 In.
Well Volume: 1.96 Gal. Screen Length: 10 Ft.

Date / Time	Volume Removed (Gal.)	Water Level (BTOC)	Field Parameters: pH (S.U.)	Specific Cond. (umhos/cm)	DO mg/L	Turbidity (NTU)	Temperature (°C)	ORP	Remarks
4-3-25/1350	3	43.35	6.29	300	2.2	486	23.70	-12	
1400	6	44.27	6.13	441	1.3	214	23.09	43	
1415	11	44.04	6.07	500	1.6	11.8	23.61	3	
1430	15	44.04	5.98	519	1.7	41.7	23.72	41	Surged pump
1445	19	44.04	5.93	527	1.7	21.6	23.82	22	Surged pump
Total Volume Removed:	19 gal before Troll log + 4 during troll log = 23 gallons total								

Development Method: Surged w/ rigid tubing and surge block for 20 mins (1315-1335). Began purging w/ monsoon pump @ 1340. Switched to troll log @ 1450.

Notes:
H = well depth (BTOC) - W.L. (BTOC)
2" diameter well: 0.16 X H = volume in gallons
4" diameter well: 0.66 X H = voume in gallons

Low-Flow Test Report:

Test Date / Time: 4/3/2025 2:50:02 PM
Project: Plant Branch Ash Pond
Operator Name: Taylor Goble

Location Name: PZ-81 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.53 ft** **Total Depth: 51.53 ft** **Initial Depth to Water: 44.04 ft**	**Pump Type: Mega Monsoon Pro** **Tubing Type: Poly** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 15 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 500 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Purged 19 gallons from well before log started

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
4/3/2025 2:50 PM	00:00	6.10 pH	21.06 °C	551.97 µS/cm	0.22 mg/L	4.62 NTU	-5.9 mV	44.04 ft	500.00 ml/min
4/3/2025 2:55 PM	05:00	6.05 pH	21.04 °C	576.89 µS/cm	0.16 mg/L	2.76 NTU	-20.7 mV	44.04 ft	500.00 ml/min
4/3/2025 3:00 PM	10:00	6.03 pH	21.01 °C	559.66 µS/cm	0.14 mg/L	2.12 NTU	-29.6 mV	44.04 ft	500.00 ml/min
4/3/2025 3:05 PM	15:00	6.04 pH	20.99 °C	563.03 µS/cm	0.17 mg/L	2.05 NTU	-34.9 mV	44.04 ft	500.00 ml/min
4/3/2025 3:10 PM	20:05	6.03 pH	21.20 °C	552.09 µS/cm	0.21 mg/L	1.75 NTU	-37.8 mV	44.04 ft	500.00 ml/min
4/3/2025 3:15 PM	25:08	6.04 pH	21.21 °C	559.22 µS/cm	0.26 mg/L	1.61 NTU	-39.7 mV	44.04 ft	500.00 ml/min
4/3/2025 3:20 PM	30:08	6.03 pH	20.97 °C	552.83 µS/cm	0.28 mg/L	1.54 NTU	-45.1 mV	44.04 ft	500.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch

Date: 4-3-25

Calibrated By: T. Goble

Field Conditions: Cloudy 77°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 500	1183949
Turbidity Meter	HACH 2100Q	24010D000426

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GE0127	5/26	PINE
pH (SU)	7.00	4GC0526	3/26	PINE
pH (SU)	10.00	4GD0774	4/26	PINE
Specific Conductance (µS/cm)	1,413	4GE0677	5/25	PINE
ORP (mV)	240.0	4GG0439	4/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4029	5/25	HACH
	20	A3363	4/25	HACH
	100	A4602	4/25	HACH

Calibration					
Time Start: 1130			**Time Finish:** 1145		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.97	24.67	± 10%	EPA 2023
pH (SU)	4.00	3.96	24.04	± 0.1	GWMP
pH (SU)	7.00	7.00	24.26	± 0.1	GWMP
pH (SU)	10.00	10.00	24.18	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1399	24.47	± 10% of standard	NA
ORP (mV)	240.0	234	24.99	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.14	± 10% of standard	EPA 2023
	10	10.3		
	20	19.4		
	100	99.8		

Calibration Check					
Time Start 1530			**Time Finish** 1540		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	3.99	25.12	± 0.1	GWMP
pH (SU)	7.00	7.07	25.27	± 0.1	GWMP
pH (SU)	10.00	10.03	25.60	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1404	25.77	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.12	± 10% of standard	EPA 2023
	10	10.2		
	20	20.2		
	100	99.6		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AP-B Date: 5/12/2025

Calibrated By: D. Johnson Field Conditions: wet, 69°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Troll 500	1183949
Turbidity Meter	Solinst	241056669

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4611219	9126	PINE
pH (SU)	7.00	4661360	7/25	PINE
pH (SU)	10.00	4610109	9/26	PINE
Specific Conductance (µS/cm)	1,413	4644192	7/26	PINE
ORP (mV)	240.0	4660439	6/25	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	770	09/26	HACH
	20	↓	↓	HACH
	100	↓	↓	HACH

Calibration					
Time Start: 0900		Time Finish: 0916			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	92.91	24.21	± 10%	EPA 2023
pH (SU)	4.00	4.00	22.42	± 0.1	GWMP
pH (SU)	7.00	7.00	22.57	± 0.1	GWMP
pH (SU)	10.00	10.05	22.32	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1420	22.21	± 10% of standard	NA
ORP (mV)	240.0	237	22.25	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.02	± 10% of standard	EPA 2023
	10	-		
	20	19.8		
	100	99.1		

Calibration Check					
Time Start 1305		Time Finish 1310			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.01	24.7	± 0.1	GWMP
pH (SU)	7.00	7.00	24.6	± 0.1	GWMP
pH (SU)	10.00	10.02	24.7	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1414	24.7	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	~~10.0~~ DUP 10.0		
	20	20.2		
	100	100		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AP-B Date: 5/13/25

Calibrated By: D. Johnson Field Conditions: 66°F, Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Troll 500	1183949
Turbidity Meter	Solinst	241056669

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4G11219	9/26	PINE
pH (SU)	7.00	4G13190	7/25	PINE
pH (SU)	10.00	4G10109	9/26	PINE
Specific Conductance (µS/cm)	1,413	4GG1192	7/26	PINE
ORP (mV)	240.0	4G50439	6/25	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	—	—	HACH
	20	770	9/26	HACH
	100	770	9/26	HACH

Calibration					
Time Start: 0800		Time Finish: 0819			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	101.97	21.30	± 10%	EPA 2023
pH (SU)	4.00	4.00	21.33	± 0.1	GWMP
pH (SU)	7.00	7.02	21.40	± 0.1	GWMP
pH (SU)	10.00	10.05	21.52	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1395	21.40	± 10% of standard	NA
ORP (mV)	240.0	238	21.47	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.07	± 10% of standard	EPA 2023
	10	—		
	20	20.1		
	100	100		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes:

APPENDIX D

Certified Well Survey Data

Plant Branch Putnam County, Georgia						
Monitoring Well Survey						
Well ID	Casing	Casing	Top of Casing	Nail or Pad	Nail or Pad	Nail or Pad
	Northing	Easting	Elevation	Northing	Easting	Elevation
BRA-PZ-80	1161564.133	2562102.228	382.240	1161563.677	2562103.120	379.100
BRA-PZ-81	1161492.925	2562260.712	381.855	1161493.320	2562260.054	378.660

Benchmark	Northing	Easting	Elevation
BRA-PZ-65I	1161693.105	2562242.972	379.610
GEL2	1161860.379	2562295.003	380.250

Coordinates and elevation are based upon existing control set by others. Benchmark GEL2 was used and BRA-PZ-65I was was used as a checkpoint. A Trimble R12 RTK GPS and Sokkia level were used to collect horizontal position and elevation data. Elevations for each point were established by running closed level loops with Sokia level.

4/14/2025

Johnny E. Holley date

Georgia Registration Number LS003550

Thompson Engineering Certificate of Authorization LSF-1151



APPENDIX B

Well Maintenance and Repair Documentation

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Location/Identification			
Well ID:	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWA-12S	Yes	Yes	No	Yes
BRGWA-12I	Yes	Yes	No	Yes
BRGWA-23S	Yes	Yes	No	Yes
BRGWC-25I	Yes	Yes	No	Yes
BRGWC-27I	Yes	Yes	No	Yes
BRGWC-29I	Yes	Yes	No	Yes
BRGWC-30I	Yes	Yes	No	Yes
BRGWC-32S	Yes	Yes	No	Yes
BRGWC-45	Yes	Yes	No	Yes
BRGWC-47	Yes	Yes	No	Yes
BRGWC-50	Yes	Yes	No	Yes
BRGWC-52I	Yes	Yes	No	Yes
PZ-44	Yes	Yes	No	Yes
PZ-50D	Yes	Yes	No	Yes
PZ-51S	Yes	Yes	No	Yes
PZ-51I	Yes	Yes	No	Yes
PZ-51D	Yes	Yes	No	Yes
PZ-57I	Yes	Yes	No	Yes
PZ-58I	Yes	Yes	No	Yes
PZ-59I	Yes	Yes	No	Yes
PZ-60I	Yes	Yes	No	Yes
PZ-61I	Yes	Yes	No	Yes
PZ-62I	Yes	Yes	No	Yes
PZ-63I	Yes	Yes	No	Yes
PZ-64I	Yes	Yes	No	Yes
PZ-65I	Yes	Yes	No	Yes
PZ-66I	Yes	Yes	No	Yes
PZ-68D	Yes	Yes	No	Yes
PZ-74I	Yes	Yes	No	Yes
PZ-75I	Yes	Yes	No	Yes
PZ-79I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Protective Casing				
Well ID:	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWA-12S	Yes	Yes	Yes	Yes	Yes
BRGWA-12I	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes
PZ-44	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-12S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-12I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-44	Yes	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWA-12S	
BRGWA-12I	
BRGWA-23S	
BRGWC-25I	
BRGWC-27I	
BRGWC-29I	
BRGWC-30I	
BRGWC-32S	
BRGWC-45	
BRGWC-47	
BRGWC-50	
BRGWC-52I	
PZ-44	
PZ-50D	
PZ-51S	
PZ-51I	
PZ-51D	
PZ-57I	
PZ-58I	
PZ-59I	
PZ-60I	
PZ-61I	
PZ-62I	
PZ-63I	
PZ-64I	
PZ-65I	
PZ-66I	
PZ-68D	
PZ-74I	
PZ-75I	
PZ-79I	

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWC-17S	Yes	Yes	No	Yes
BRGWC-33S	Yes	Yes	No	Yes
BRGWC-34S	Yes	Yes	No	Yes
BRGWC-35S	Yes	Yes	No	Yes
BRGWC-36S	Yes	Yes	No	Yes
BRGWC-37S	Yes	Yes	No	Yes
BRGWC-38S	Yes	Yes	No	Yes
PZ-13S	Yes	Yes	No	Yes
PZ-52D	Yes	Yes	No	Yes
PZ-53D	Yes	Yes	No	Yes
PZ-70I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWC-17S	
BRGWC-33S	
BRGWC-34S	
BRGWC-35S	
BRGWC-36S	
BRGWC-37S	
BRGWC-38S	
PZ-13S	
PZ-52D	
PZ-53D	
PZ-70I	

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-1S	Yes	Yes	No	Yes
PZ-1I	Yes	Yes	No	Yes
PZ-1D	Yes	Yes	No	Yes
PZ-3S	Yes	Yes	No	Yes
PZ-3I	Yes	Yes	No	Yes
PZ-3D	Yes	Yes	No	Yes
PZ-4S	Yes	Yes	No	Yes
PZ-4I	Yes	Yes	No	Yes
PZ-7S	Yes	Yes	No	Yes
PZ-8S	Yes	Yes	No	Yes
PZ-9S	Yes	Yes	No	Yes
PZ-10S	Yes	Yes	No	Yes
PZ-11S	Yes	Yes	No	Yes
PZ-12D	Yes	Yes	No	Yes
PZ-14S	Yes	Yes	No	Yes
PZ-14I	Yes	Yes	No	Yes
PZ-15S	Yes	Yes	No	Yes
PZ-15I	Yes	Yes	No	Yes
PZ-16S	Yes	Yes	No	Yes
PZ-16I	Yes	Yes	No	Yes
PZ-17I	Yes	Yes	No	Yes
PZ-18S	Yes	Yes	No	Yes
PZ-18I	Yes	Yes	No	Yes
PZ-19S	Yes	Yes	No	Yes
PZ-19I	Yes	Yes	No	Yes
PZ-20S	Yes	Yes	No	Yes
PZ-20I	Yes	Yes	No	Yes
PZ-21S	Yes	Yes	No	Yes
PZ-21I	Yes	Yes	No	Yes
PZ-23I	Yes	Yes	No	Yes
PZ-24S	Yes	Yes	No	Yes
PZ-26I	Yes	Yes	No	Yes
PZ-28I	Yes	Yes	No	Yes
PZ-31S	Yes	Yes	No	Yes
PZ-39	Yes	Yes	No	Yes
PZ-40S	Yes	Yes	No	Yes
PZ-41S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-11S	Yes	Yes	Yes	Yes	Yes
PZ-12D	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes
PZ-24S	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes
PZ-39	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-11S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-12D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-24S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-39	Yes	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-1S	
PZ-1I	
PZ-1D	
PZ-3S	
PZ-3I	
PZ-3D	
PZ-4S	
PZ-4I	
PZ-7S	
PZ-8S	
PZ-9S	
PZ-10S	
PZ-11S	
PZ-12D	
PZ-14S	
PZ-14I	
PZ-15S	
PZ-15I	
PZ-16S	
PZ-16I	
PZ-17I	
PZ-18S	
PZ-18I	
PZ-19S	
PZ-19I	
PZ-20S	
PZ-20I	
PZ-21S	
PZ-21I	
PZ-23I	
PZ-24S	
PZ-26I	
PZ-28I	
PZ-31S	
PZ-39	
PZ-40S	
PZ-41S	

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-42S	Yes	Yes	No	Yes
PZ-43	Yes	Yes	No	Yes
PZ-46	Yes	Yes	No	Yes
PZ-48	Yes	Yes	No	Yes
PZ-49	Yes	Yes	No	Yes
PZ-54	Yes	Yes	No	Yes
PZ-55	Yes	Yes	No	Yes
PZ-56	Yes	Yes	No	Yes
PZ-67	Yes	Yes	No	Yes
PZ-69I	Yes	Yes	No	Yes
PZ-71I	Yes	Yes	No	Yes
PZ-72I	Yes	Yes	No	Yes
PZ-73I	Yes	Yes	No	Yes
PZ-76I	Yes	Yes	No	Yes
PZ-77I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-42S	Yes	Yes	Yes	Yes	Yes
PZ-43	NA	NA	NA	NA	NA
PZ-46	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes
PZ-76I	NA	NA	NA	NA	NA
PZ-77I	NA	NA	NA	NA	NA

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-42S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-43	NA	NA	NA	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-76I	NA	NA	NA	Yes	Yes	Yes
PZ-77I	NA	NA	NA	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-42S	
PZ-43	PVC stick up well
PZ-46	
PZ-48	
PZ-49	
PZ-54	
PZ-55	
PZ-56	
PZ-67	
PZ-69I	
PZ-71I	
PZ-72I	
PZ-73I	
PZ-76I	PVC stick up well
PZ-77I	PVC stick up well

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWA-23S	Yes	Yes	No	Yes
BRGWC-25I	Yes	Yes	No	Yes
BRGWC-27I	Yes	Yes	No	Yes
BRGWC-29I	Yes	Yes	No	Yes
BRGWC-30I	Yes	Yes	No	Yes
BRGWC-32S	Yes	Yes	No	Yes
BRGWC-45	Yes	Yes	No	Yes
BRGWC-47	Yes	Yes	No	Yes
BRGWC-52I	Yes	Yes	No	Yes
PZ-44	Yes	Yes	No	Yes
PZ-63I	Yes	Yes	No	Yes
PZ-68D	Yes	Yes	No	Yes
PZ-74I	Yes	Yes	No	Yes
PZ-75I	Yes	Yes	No	Yes
PZ-79	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes
PZ-44	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-44	Yes	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWA-23S	
BRGWC-25I	
BRGWC-27I	
BRGWC-29I	
BRGWC-30I	
BRGWC-32S	
BRGWC-45	
BRGWC-47	
BRGWC-52I	
PZ-44	Well renamed to BRGWC-44, new tag will be added
PZ-63I	
PZ-68D	
PZ-74I	
PZ-75I	
PZ-79	

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWC-17S	Yes	Yes	No	Yes
BRGWC-33S	Yes	Yes	No	Yes
BRGWC-34S	Yes	Yes	No	Yes
BRGWC-35S	Yes	Yes	No	Yes
BRGWC-36S	Yes	Yes	No	Yes
BRGWC-37S	Yes	Yes	No	Yes
BRGWC-38S	Yes	Yes	No	Yes
PZ-13S	Yes	Yes	No	Yes
PZ-52D	Yes	Yes	No	Yes
PZ-53D	Yes	Yes	No	Yes
PZ-70I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWC-17S	
BRGWC-33S	
BRGWC-34S	
BRGWC-35S	
BRGWC-36S	
BRGWC-37S	
BRGWC-38S	
PZ-13S	
PZ-52D	
PZ-53D	
PZ-70I	

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-1S	Yes	Yes	No	Yes
PZ-1I	Yes	Yes	No	Yes
PZ-1D	Yes	Yes	No	Yes
PZ-3S	Yes	Yes	No	Yes
PZ-3I	Yes	Yes	No	Yes
PZ-3D	Yes	Yes	No	Yes
PZ-4S	Yes	Yes	No	Yes
PZ-4I	Yes	Yes	No	Yes
PZ-7S	Yes	Yes	No	Yes
PZ-8S	Yes	Yes	No	Yes
PZ-9S	Yes	Yes	No	Yes
PZ-10S	Yes	Yes	No	Yes
PZ-11S	Yes	Yes	No	Yes
PZ-12D	Yes	Yes	No	Yes
PZ-14S	Yes	Yes	No	Yes
PZ-14I	Yes	Yes	No	Yes
PZ-15S	Yes	Yes	No	Yes
PZ-15I	Yes	Yes	No	Yes
PZ-16S	Yes	Yes	No	Yes
PZ-16I	Yes	Yes	No	Yes
PZ-17I	Yes	Yes	No	Yes
PZ-18S	Yes	Yes	No	Yes
PZ-18I	Yes	Yes	No	Yes
PZ-19S	Yes	Yes	No	Yes
PZ-19I	Yes	Yes	No	Yes
PZ-20S	Yes	Yes	No	Yes
PZ-20I	Yes	Yes	No	Yes
PZ-21S	Yes	Yes	No	Yes
PZ-21I	Yes	Yes	No	Yes
PZ-23I	Yes	Yes	No	Yes
PZ-24S	Yes	Yes	No	Yes
PZ-26I	Yes	Yes	No	Yes
PZ-28I	Yes	Yes	No	Yes
PZ-31S	Yes	Yes	No	Yes
PZ-39	Yes	Yes	No	Yes
PZ-40S	Yes	Yes	No	Yes
PZ-41S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-11S	Yes	Yes	Yes	Yes	Yes
PZ-12D	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes
PZ-24S	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes
PZ-39	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-11S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-12D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-24S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-39	Yes	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-1S	
PZ-1I	
PZ-1D	
PZ-3S	
PZ-3I	
PZ-3D	
PZ-4S	
PZ-4I	
PZ-7S	
PZ-8S	
PZ-9S	
PZ-10S	
PZ-11S	
PZ-12D	
PZ-14S	
PZ-14I	
PZ-15S	
PZ-15I	
PZ-16S	
PZ-16I	
PZ-17I	
PZ-18S	
PZ-18I	
PZ-19S	
PZ-19I	
PZ-20S	
PZ-20I	
PZ-21S	
PZ-21I	
PZ-23I	
PZ-24S	
PZ-26I	
PZ-28I	
PZ-31S	
PZ-39	
PZ-40S	
PZ-41S	

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-42S	Yes	Yes	No	Yes
PZ-46	Yes	Yes	No	Yes
PZ-48	Yes	Yes	No	Yes
PZ-49	Yes	Yes	No	Yes
PZ-54	Yes	Yes	No	Yes
PZ-55	Yes	Yes	No	Yes
PZ-56	Yes	Yes	No	Yes
PZ-69I	Yes	Yes	No	Yes
PZ-71I	Yes	Yes	No	Yes
PZ-72I	Yes	Yes	No	Yes
PZ-73I	Yes	Yes	No	Yes
PZ-76I	Yes	Yes	No	Yes
PZ-77I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-42S	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes
PZ-76I	NA	NA	NA	NA	NA
PZ-77I	NA	NA	NA	NA	NA

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-42S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-76I	NA	NA	NA	Yes	Yes	Yes
PZ-77I	NA	NA	NA	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-42S	
PZ-46	
PZ-48	
PZ-49	
PZ-54	
PZ-55	
PZ-56	
PZ-69I	
PZ-71I	
PZ-72I	
PZ-73I	
PZ-76I	PVC stick up well
PZ-77I	PVC stick up well

APPENDIX C

Laboratory Analytical Results and Field Sampling Forms

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683169

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683169001	BRA-BRGWC-38S	Ground Water	08/27/24 12:07	08/28/24 08:27
683169002	BRA-PZ-53D	Ground Water	08/27/24 14:00	08/28/24 08:27
683169003	BRA-PZ-13S	Ground Water	08/27/24 13:51	08/28/24 08:27
683169004	BRA-BRGWC-37S	Ground Water	08/27/24 16:41	08/28/24 08:27
683169005	BRA-APE-FB-07	Water	08/27/24 15:40	08/28/24 08:27
683169006	BRA-APE-FD-04	Ground Water	08/27/24 12:00	08/28/24 08:27

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	29-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	28-AUG-2024

EPA 300.0	29-AUG-2024
SM 2320B	28-AUG-2024
SM 2540C	03-SEP-2024
SM 4500-S (2-) D	29-AUG-2024
SW846 3005A/6020B	07-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	30-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683169 GEL Work Order: 683169

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-38S	Project:	GPCC00101
Sample ID:	683169001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:07		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.53	0.0670	0.200	mg/L		1	CH6	08/28/24	1854	2664372	1
Fluoride		0.366	0.0330	0.100	mg/L		1					
Sulfate		233	2.66	8.00	mg/L		20	CH6	08/29/24	0816	2664372	2
Nitrate-N	J	0.145	0.0660	0.200	mg/L		2	CH6	08/29/24	0745	2664372	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1307	2664552	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.31	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1148	2664353	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1544	2664353	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0164	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00644	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000341	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00328	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.119	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0200	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.23	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0180	0.00150	0.00500	mg/L	1.00	1					
Sodium		32.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		1.26	0.0100	0.0500	mg/L	1.00	10	BAJ	09/07/24	1600	2664353	7
Calcium		26.7	0.0800	0.200	mg/L	1.00	1	BAJ	09/08/24	1138	2664353	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		370	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	10

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-38S
Sample ID: 683169001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/28/24	1633	2664341	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-53D	Project:	GPCC00101
Sample ID:	683169002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 14:00		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.37	0.0670	0.200	mg/L		1	CH6	08/28/24	1924	2664372	1
Fluoride		0.103	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		294	3.33	10.0	mg/L		25	CH6	08/29/24	0847	2664372	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1318	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.989	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1129	2664353	4
Calcium		80.0	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1617	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0535	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.218	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0190	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.2	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.451	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00191	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.42	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		521	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-53D
Sample ID: 683169002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		50.3	0.725	2.00	mg/L			JW2	08/28/24	1633	2664341	8
Bicarbonate alkalinity (CaCO3)		50.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-13S	Project:	GPCC00101
Sample ID:	683169003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 13:51		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.03	0.0670	0.200	mg/L		1	CH6	08/28/24	1955	2664372	1
Fluoride	J	0.0701	0.0330	0.100	mg/L		1					
Sulfate		66.6	0.665	2.00	mg/L		5	CH6	08/29/24	0949	2664372	2
Nitrate-N		0.260	0.0660	0.200	mg/L		2	CH6	08/29/24	0918	2664372	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1320	2664552	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1125	2664353	5
Calcium		14.0	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1627	2664353	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0543	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000346	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0137	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.65	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00185	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.23	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00217	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		140	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	8

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-13S
Sample ID: 683169003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		17.6	0.725	2.00	mg/L			JW2	08/28/24	1635	2664341	9
Bicarbonate alkalinity (CaCO3)		17.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-37S
Sample ID: 683169004
Matrix: WG
Collect Date: 27-AUG-24 16:41
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.90	0.0670	0.200	mg/L		1	CH6	08/28/24	2026	2664372	1
Fluoride	J	0.0777	0.0330	0.100	mg/L		1					
Sulfate	J	0.279	0.133	0.400	mg/L		1					
Nitrate-N		0.301	0.0660	0.200	mg/L		2	CH6	08/29/24	1020	2664372	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1322	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1126	2664353	4
Calcium		3.64	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1629	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0270	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		1.34	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.95	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.50	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		40.0	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-37S
Sample ID: 683169004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.2	0.725	2.00	mg/L			JW2	08/28/24	1636	2664341	8
Bicarbonate alkalinity (CaCO3)		21.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-FB-07	Project:	GPCC00101
Sample ID:	683169005	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	27-AUG-24 15:40		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/28/24	2057	2664372	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1323	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1121	2664353	3
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1526	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	6

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FB-07 Project: GPCC00101
Sample ID: 683169005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/28/24	1638	2664341	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-FD-04	Project:	GPCC00101
Sample ID:	683169006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:00		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		64.9	0.665	2.00	mg/L		5	CH6	08/29/24	1152	2664372	1
Chloride		3.00	0.0670	0.200	mg/L		1	CH6	08/28/24	2128	2664372	2
Fluoride	J	0.0675	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0514	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1325	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1632	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0563	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000348	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0138	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.68	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00183	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.28	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00206	0.00150	0.00500	mg/L	1.00	1					
Sodium		12.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1128	2664353	5
Calcium		14.2	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		159	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 683169006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		16.8	0.725	2.00	mg/L			JW2	08/28/24	1639	2664341	8
Bicarbonate alkalinity (CaCO3)		16.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 12, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2664372										
QC1205838481 683164003 DUP										
Chloride		62.5		62.8	mg/L	0.488		(0%-20%)	CH6	08/29/24 00:33
Fluoride		1.07		1.06	mg/L	1.1	^	(+/-0.500)		08/29/24 04:09
Nitrate-N		22.1		22.2	mg/L	0.194		(0%-20%)		08/29/24 00:33
Sulfate		354		354	mg/L	0.109		(0%-20%)		08/29/24 06:43
QC1205838480 LCS										
Chloride	5.00			4.72	mg/L		94.4	(90%-110%)		08/29/24 00:02
Fluoride	2.50			2.35	mg/L		94	(90%-110%)		
Nitrate-N	2.50			2.38	mg/L		95.2	(90%-110%)		
Sulfate	10.0			9.45	mg/L		94.5	(90%-110%)		
QC1205838479 MB										
Chloride			U	ND	mg/L					08/28/24 23:31
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2664372										
QC1205838482 683164003 PS										
Chloride	5.00	6.25		11.7	mg/L		109	(90%-110%)	CH6	08/29/24 01:04
Fluoride	2.50	1.07		3.48	mg/L		96.2	(90%-110%)		08/29/24 05:42
Nitrate-N	2.50	2.21		4.79	mg/L		103	(90%-110%)		08/29/24 01:04
Sulfate	10.0	14.2		24.5	mg/L		104	(90%-110%)		08/29/24 07:14
Metals Analysis - ICPMS										
Batch 2664353										
QC1205838425 LCS										
Antimony	0.0500			0.0500	mg/L		99.9	(80%-120%)	BAJ	09/07/24 15:23
Arsenic	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500			0.0514	mg/L		103	(80%-120%)		
Beryllium	0.0500			0.0559	mg/L		112	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		09/08/24 11:19
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		09/07/24 15:23
Calcium	2.00			2.03	mg/L		102	(80%-120%)		09/08/24 11:19
Chromium	0.0500			0.0506	mg/L		101	(80%-120%)		09/07/24 15:23
Cobalt	0.0500			0.0494	mg/L		98.8	(80%-120%)		

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Iron	2.00			1.99	mg/L		99.4	(80%-120%)	BAJ	09/07/24 15:23
Lead	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Lithium	0.0500			0.0525	mg/L		105	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		
Manganese	0.0500			0.0495	mg/L		99	(80%-120%)		
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)		
Potassium	2.00			2.03	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0521	mg/L		104	(80%-120%)		
Sodium	2.00			2.13	mg/L		107	(80%-120%)		
Thallium	0.0500			0.0474	mg/L		94.8	(80%-120%)		
QC1205838424 MB										
Antimony			U	ND	mg/L					09/07/24 15:20
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Boron			U	ND	mg/L				BAJ	09/08/24 11:18
Cadmium			U	ND	mg/L					09/07/24 15:20
Calcium			U	ND	mg/L					09/08/24 11:18
Chromium			U	ND	mg/L					09/07/24 15:20
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683169**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Thallium				U	ND	mg/L				BAJ	09/07/24 15:20
QC1205838426 683169001 MS											
Antimony	0.0500	U	ND		0.0528	mg/L		106	(75%-125%)		09/07/24 15:47
Arsenic	0.0500	U	ND		0.0542	mg/L		106	(75%-125%)		
Barium	0.0500		0.0164		0.0685	mg/L		104	(75%-125%)		
Beryllium	0.0500		0.00644		0.0655	mg/L		118	(75%-125%)		
Boron	0.100		1.31		1.41	mg/L		N/A	(75%-125%)		09/08/24 11:50
Cadmium	0.0500	J	0.000341		0.0521	mg/L		104	(75%-125%)		09/07/24 15:47
Calcium	2.00		26.7		29.2	mg/L		N/A	(75%-125%)		09/08/24 11:40
Chromium	0.0500	J	0.00328		0.0546	mg/L		103	(75%-125%)		09/07/24 15:47
Cobalt	0.0500		0.119		0.169	mg/L		101	(75%-125%)		
Iron	2.00	U	ND		2.04	mg/L		101	(75%-125%)		
Lead	0.0500	U	ND		0.0494	mg/L		98.3	(75%-125%)		
Lithium	0.0500		0.0200		0.0745	mg/L		109	(75%-125%)		
Magnesium	2.00		27.9		30.2	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683169**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Manganese	0.0500		1.26		1.30	mg/L		N/A	(75%-125%)	BAJ	09/07/24 16:03
Molybdenum	0.0500	U	ND		0.0559	mg/L		112	(75%-125%)		09/07/24 15:47
Potassium	2.00		5.23		7.47	mg/L		112	(75%-125%)		
Selenium	0.0500		0.0180		0.0714	mg/L		107	(75%-125%)		
Sodium	2.00		32.8		34.6	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0477	mg/L		95.1	(75%-125%)		
QC1205838427 683169001 MSD											
Antimony	0.0500	U	ND		0.0521	mg/L	1.44	104	(0%-20%)		09/07/24 15:50
Arsenic	0.0500	U	ND		0.0524	mg/L	3.41	102	(0%-20%)		
Barium	0.0500		0.0164		0.0676	mg/L	1.27	102	(0%-20%)		
Beryllium	0.0500		0.00644		0.0636	mg/L	2.89	114	(0%-20%)		
Boron	0.100		1.31		1.36	mg/L	4.08	N/A	(0%-20%)		09/08/24 11:51
Cadmium	0.0500	J	0.000341		0.0520	mg/L	0.292	103	(0%-20%)		09/07/24 15:50
Calcium	2.00		26.7		28.3	mg/L	2.95	N/A	(0%-20%)		09/08/24 11:41
Chromium	0.0500	J	0.00328		0.0528	mg/L	3.3	99.1	(0%-20%)		09/07/24 15:50

QC Summary

Workorder: **683169**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2664353												
Cobalt	0.0500		0.119		0.165	mg/L	2.25	93	(0%-20%)	BAJ	09/07/24	15:50
Iron	2.00	U	ND		2.00	mg/L	2.01	99.1	(0%-20%)			
Lead	0.0500	U	ND		0.0489	mg/L	0.94	97.4	(0%-20%)			
Lithium	0.0500		0.0200		0.0738	mg/L	0.875	108	(0%-20%)			
Magnesium	2.00		27.9		29.4	mg/L	2.87	N/A	(0%-20%)			
Manganese	0.0500		1.26		1.25	mg/L	4.06	N/A	(0%-20%)		09/07/24	16:05
Molybdenum	0.0500	U	ND		0.0554	mg/L	0.967	111	(0%-20%)		09/07/24	15:50
Potassium	2.00		5.23		7.14	mg/L	4.48	95.4	(0%-20%)			
Selenium	0.0500		0.0180		0.0700	mg/L	1.97	104	(0%-20%)			
Sodium	2.00		32.8		33.9	mg/L	2.02	N/A	(0%-20%)			
Thallium	0.0500	U	ND		0.0466	mg/L	2.37	92.9	(0%-20%)			
QC1205838428 683169001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	15:56
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			16.4	J	3.42	ug/L	4.18		(0%-20%)			

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Beryllium		6.44		1.25	ug/L	3.4		(0%-20%)	BAJ	09/07/24 15:56
Boron		131		31.0	ug/L	17.9		(0%-20%)		09/08/24 11:52
Cadmium	J	0.341	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Calcium		26700		5480	ug/L	2.83		(0%-20%)		09/08/24 11:43
Chromium	J	3.28	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Cobalt		119		24.5	ug/L	2.95		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		20.0	J	3.83	ug/L	4.15		(0%-20%)		
Magnesium		27900		5950	ug/L	6.39		(0%-20%)		
Manganese		126		25.3	ug/L	.101		(0%-20%)		09/07/24 16:08
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Potassium		5230		1060	ug/L	.798		(0%-20%)		
Selenium		18.0	J	3.83	ug/L	6.1		(0%-20%)		

QC Summary

Workorder: 683169

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Sodium		32800		6560	ug/L	.000277			(0%-20%)	BAJ	09/07/24 15:56
Thallium	U	ND	U	ND	ug/L	N/A			(0%-20%)		
Metals Analysis-Mercury											
Batch 2664552											
QC1205838870 683169001 DUP											
Mercury	U	ND	U	ND	mg/L	N/A				JP2	08/30/24 13:08
QC1205838869 LCS											
Mercury 0.00200				0.00204	mg/L			102	(80%-120%)		08/30/24 13:05
QC1205838868 MB											
Mercury			U	ND	mg/L						08/30/24 13:03
QC1205838871 683169001 MS											
Mercury 0.00200	U	ND		0.00203	mg/L			99.5	(75%-125%)		08/30/24 13:13
QC1205838872 683169001 SDILT											
Mercury	U	ND	U	ND	ug/L	N/A			(0%-10%)		08/30/24 13:15
Solids Analysis											
Batch 2666213											
QC1205842577 683169001 DUP											
Total Dissolved Solids		370		401	mg/L	8.04	*		(0%-5%)	KLP1	09/03/24 15:58
QC1205842578 683173007 DUP											
Total Dissolved Solids		180		178	mg/L	1.12			(0%-5%)		09/03/24 15:58
QC1205842576 LCS											
Total Dissolved Solids 300				294	mg/L			98	(95%-105%)		09/03/24 15:58

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2666213										
QC1205842575 MB										
Total Dissolved Solids			U	ND	mg/L				KLP1	09/03/24 15:58
Spectrometric Analysis										
Batch 2664625										
QC1205838996 LCS										
Total Sulfide	0.400			0.409	mg/L		102	(85%-115%)	JW2	08/29/24 11:00
QC1205838995 MB										
Total Sulfide			U	ND	mg/L					08/29/24 11:00
QC1205838997 683169001 PS										
Total Sulfide	0.400	U	ND	0.389	mg/L		97.2	(75%-125%)		08/29/24 11:00
QC1205838999 683176001 PS										
Total Sulfide	0.400	U	ND	0.401	mg/L		100	(75%-125%)		08/29/24 11:01
QC1205838998 683169001 PSD										
Total Sulfide	0.400	U	ND	0.378	mg/L	2.9	94.4	(0%-15%)		08/29/24 11:00
QC1205839000 683176001 PSD										
Total Sulfide	0.400	U	ND	0.393	mg/L	2.18	98.2	(0%-15%)		08/29/24 11:01
Titration and Ion Analysis										
Batch 2664341										
QC1205838409 LCS										
Alkalinity, Total as CaCO3	50.0			53.1	mg/L		106	(90%-110%)	JW2	08/28/24 16:28
QC1205838414 LCS										
Alkalinity, Total as CaCO3	15.0			14.4	mg/L		96	(90%-110%)		08/28/24 16:30
QC1205838415 LCSD										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L	0.377	106	(0%-20%)		08/28/24 16:29

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2664341											
QC1205838416 LCSD											
Alkalinity, Total as CaCO3	15.0			14.1	mg/L	2.11	94	(0%-20%)	JW2	08/28/24	16:31

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
***** Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2664353

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2664350

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838424	Method Blank (MB)**ICP-MS**
1205838425	Laboratory Control Sample (LCS)
1205838428	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838426	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)
1205838427	683169001(BRA-BRGWC-38SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683169001 (BRA-BRGWC-38S) and 683169002 (BRA-PZ-53D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683169	
	001	002
Boron	10X	10X
Calcium	1X	10X
Manganese	10X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2664552

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2664551

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838868	Method Blank (MB)**CVAA**
1205838869	Laboratory Control Sample (LCS)
1205838872	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838870	683169001(BRA-BRGWC-38SD) Sample Duplicate (DUP)
1205838871	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2664372

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D

683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838479	Method Blank (MB)
1205838480	Laboratory Control Sample (LCS)
1205838481	683164003(NonSDG) Sample Duplicate (DUP)
1205838482	683164003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205838481 (Non SDG 683164003DUP), 1205838482 (Non SDG 683164003PS), 683169001 (BRA-BRGWC-38S), 683169002 (BRA-PZ-53D), 683169003 (BRA-PZ-13S) and 683169006 (BRA-APE-FD-04) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205838481 (Non SDG 683164003DUP), 1205838482 (Non SDG 683164003PS), 683169001 (BRA-BRGWC-38S), 683169003 (BRA-PZ-13S) and 683169004 (BRA-BRGWC-37S) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683169				
	001	**002**	**003**	**004**	**006**
Nitrate-N	2X	1X	2X	2X	1X
Sulfate	20X	25X	5X	1X	5X

Miscellaneous Information

Manual Integrations
Samples 1205838481 (Non SDG 683164003DUP), 1205838482 (Non SDG 683164003PS), 683169001 (BRA-BRGWC-38S), 683169002 (BRA-PZ-53D), 683169003 (BRA-PZ-13S), 683169004 (BRA-BRGWC-37S) and 683169006 (BRA-APE-FD-04) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666213

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S

683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205842575	Method Blank (MB)
1205842576	Laboratory Control Sample (LCS)
1205842577	683169001(BRA-BRGWC-38S) Sample Duplicate (DUP)
1205842578	683173007(BRA-PZ-44) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205842577 (BRA-BRGWC-38SDUP)	8.04* (0%-5%)

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2664625

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838995	Method Blank (MB)
1205838996	Laboratory Control Sample (LCS)
1205838997	683169001(BRA-BRGWC-38S) Post Spike (PS)
1205838998	683169001(BRA-BRGWC-38S) Post Spike Duplicate (PSD)
1205838999	683176001(BRA-BRGWA-2S) Post Spike (PS)
1205839000	683176001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2664341

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838409	Laboratory Control Sample (LCS)
1205838414	Laboratory Control Sample (LCS)
1205838415	Laboratory Control Sample Duplicate (LCSD)
1205838416	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

683170 / 683169

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gobble / D. Johnson ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb. & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-38S	08/27/24	1207	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- P2-53D	08/27/24	1400	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- P2-13S	08/27/24	1351	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-37S	08/27/24	1641	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-07	08/27/24	1540	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-04	08/27/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Taylor Gobble	8-28-24	0827	1	8/28/24	0827
2			2	8/28/24	1310
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: *** Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683170 683169
683173 683174
683176 683177

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?		✓		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?		✓		GWA-2I metals container has no label
13	COC form is properly signed in relinquished/received sections?		✓		Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HTB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683173

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683173001	BRA-BRGWA-23S	Ground Water	08/27/24 12:30	08/28/24 08:27
683173002	BRA-APBCD-FB-01	Water	08/27/24 15:25	08/28/24 08:27
683173003	BRA-BRGWC-29I	Ground Water	08/27/24 15:45	08/28/24 08:27
683173004	BRA-BRGWC-27I	Ground Water	08/27/24 15:37	08/28/24 08:27
683173005	BRA-PZ-74I	Ground Water	08/27/24 12:12	08/28/24 08:27
683173006	BRA-PZ-75I	Ground Water	08/27/24 14:00	08/28/24 08:27
683173007	BRA-PZ-44	Ground Water	08/27/24 17:21	08/28/24 08:27
683173008	BRA-APBCD-FD-01	Ground Water	08/27/24 12:00	08/28/24 08:27
683173009	BRA-APBCD-EB-04	Water	08/27/24 17:45	08/28/24 08:27

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	29-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	28-AUG-2024
EPA 300.0	29-AUG-2024
SM 2320B	28-AUG-2024
SM 2540C	03-SEP-2024
SM 4500-S (2-) D	29-AUG-2024
SW846 3005A/6020B	07-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	30-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683173 GEL Work Order: 683173

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-23S	Project:	GPCC00101
Sample ID:	683173001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:30		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N		1.28	0.0660	0.200	mg/L		2	TXT1	08/29/24	0151	2664366	1
Chloride		2.16	0.0670	0.200	mg/L		1	TXT1	08/28/24	1824	2664366	2
Fluoride		0.204	0.0330	0.100	mg/L		1					
Sulfate		9.73	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1326	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1643	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0432	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0482	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00687	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.38	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000225	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.95	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		8.76	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0315	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1200	2664353	5
Calcium		5.88	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		86.0	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-23S
Sample ID: 683173001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.4	0.725	2.00	mg/L			JW2	08/28/24	1640	2664341	8
Bicarbonate alkalinity (CaCO3)		32.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 683173002
Matrix: WQ
Collect Date: 27-AUG-24 15:25
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.118	0.0670	0.200	mg/L		1	TXT1	08/28/24	2000	2664366	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1328	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1122	2664353	3
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1528	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	6

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 683173002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/28/24	1642	2664341	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-29I	Project:	GPCC00101
Sample ID:	683173003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 15:45		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.87	0.0670	0.200	mg/L		1	TXT1	08/28/24	2032	2664366	1
Fluoride	J	0.0849	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		261	3.33	10.0	mg/L		25	TXT1	08/29/24	0327	2664366	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1333	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		1.13	0.0100	0.0500	mg/L	1.00	10	BAJ	09/07/24	1655	2664353	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1646	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0163	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.000892	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00574	0.000300	0.00100	mg/L	1.00	1					
Iron		17.6	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00305	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.52	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.74	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.09	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1202	2664353	6
Calcium		70.5	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		424	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	8

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-29I
Sample ID: 683173003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/28/24	1642	2664341	9
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-27I	Project:	GPCC00101
Sample ID:	683173004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 15:37		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		174	3.33	10.0	mg/L		25	TXT1	08/29/24	0358	2664366	1
Chloride		4.47	0.0670	0.200	mg/L		1	TXT1	08/28/24	2104	2664366	2
Fluoride		0.382	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0370	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1335	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1649	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0164	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00566	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.27	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.415	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000211	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.07	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.28	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1203	2664353	5
Calcium		75.9	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		346	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-27I
Sample ID: 683173004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		51.2	0.725	2.00	mg/L			JW2	08/28/24	1643	2664341	8
Bicarbonate alkalinity (CaCO3)		51.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-74I	Project:	GPCC00101
Sample ID:	683173005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:12		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.159	0.0330	0.100	mg/L		1	TXT1	08/28/24	2136	2664366	1
Nitrate-N	J	0.0492	0.0330	0.100	mg/L		1					
Chloride		27.1	1.68	5.00	mg/L		25	TXT1	08/29/24	0430	2664366	2
Sulfate		260	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1336	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1651	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0260	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.138	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00825	0.00300	0.0100	mg/L	1.00	1					
Magnesium		38.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00713	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.36	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0597	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.20	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1205	2664353	5
Calcium		68.8	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		519	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-74I
Sample ID: 683173005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		45.8	0.725	2.00	mg/L			JW2	08/28/24	1644	2664341	8
Bicarbonate alkalinity (CaCO3)		45.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-75I
Sample ID: 683173006
Matrix: WG
Collect Date: 27-AUG-24 14:00
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.31	0.0670	0.200	mg/L		1	TXT1	08/28/24	2208	2664366	1
Fluoride		0.155	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0477	0.0330	0.100	mg/L		1					
Sulfate		257	3.33	10.0	mg/L		25	TXT1	08/29/24	0606	2664366	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1338	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.20	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1227	2664353	4
Calcium		49.8	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1716	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0350	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00433	0.00300	0.0100	mg/L	1.00	1					
Magnesium		36.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0125	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.07	0.0800	0.300	mg/L	1.00	1					
Selenium		0.106	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		467	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-75I
Sample ID: 683173006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		35.3	0.725	2.00	mg/L			JW2	08/28/24	1646	2664341	8
Bicarbonate alkalinity (CaCO3)		35.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-44	Project:	GPCC00101
Sample ID:	683173007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 17:21		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		41.8	0.665	2.00	mg/L		5	TXT1	08/29/24	0953	2664366	1
Chloride		5.99	0.0670	0.200	mg/L		1	TXT1	08/28/24	2343	2664366	2
Fluoride		0.193	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0416	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1340	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.16	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1233	2664353	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1719	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00629	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.5	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.404	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.65	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		24.9	0.0800	0.200	mg/L	1.00	1	BAJ	09/08/24	1228	2664353	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		180	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	8

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 683173007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		76.7	0.725	2.00	mg/L			JW2	08/28/24	1648	2664341	9
Bicarbonate alkalinity (CaCO3)		76.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 683173008
Matrix: WQ
Collect Date: 27-AUG-24 12:00
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		177	2.66	8.00	mg/L		20	TXT1	08/29/24	1024	2664366	1
Chloride		4.45	0.0670	0.200	mg/L		1	TXT1	08/29/24	0015	2664366	2
Fluoride		0.398	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1341	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.32	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1231	2664353	4
Calcium		73.7	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1722	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0162	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00543	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.08	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.402	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.90	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		340	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	7

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 683173008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		52.1	0.725	2.00	mg/L			JW2	08/28/24	1649	2664341	8
Bicarbonate alkalinity (CaCO3)		52.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 683173009
Matrix: WG
Collect Date: 27-AUG-24 17:45
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.118	0.0670	0.200	mg/L		1	TXT1	08/29/24	0047	2664366	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1343	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1124	2664353	3
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1531	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 683173009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	0.900	0.725	2.00	mg/L			JW2	08/28/24	1650	2664341	7
Bicarbonate alkalinity (CaCO3)	J	0.900	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 12, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2664366											
QC1205838463 683173001 DUP											
Chloride		2.16		2.15	mg/L	0.283			(0%-20%)	TXT1	08/28/24 18:56
Fluoride		0.204		0.213	mg/L	4.51	^		(+/-0.100)		
Nitrate-N		1.28		1.28	mg/L	0.265			(0%-20%)		08/29/24 02:23
Sulfate		9.73		9.63	mg/L	1.02			(0%-20%)		08/28/24 18:56
QC1205838462 LCS											
Chloride	5.00			4.64	mg/L			92.8	(90%-110%)		08/28/24 17:53
Fluoride	2.50			2.45	mg/L			98	(90%-110%)		
Nitrate-N	2.50			2.38	mg/L			95	(90%-110%)		
Sulfate	10.0			9.41	mg/L			94.1	(90%-110%)		
QC1205838461 MB											
Chloride			J	0.115	mg/L						08/28/24 17:21
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2664366										
QC1205838464 683173001 PS										
Chloride	5.00	2.16		7.01	mg/L		97	(90%-110%)	TXT1	08/28/24 19:28
Fluoride	2.50	0.204		2.67	mg/L		98.8	(90%-110%)		
Nitrate-N	2.50	0.642		2.97	mg/L		93.3	(90%-110%)		08/29/24 02:55
Sulfate	10.0	9.73		19.7	mg/L		99.7	(90%-110%)		08/28/24 19:28
Metals Analysis - ICPMS										
Batch 2664353										
QC1205838425 LCS										
Antimony	0.0500			0.0500	mg/L		99.9	(80%-120%)	BAJ	09/07/24 15:23
Arsenic	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500			0.0514	mg/L		103	(80%-120%)		
Beryllium	0.0500			0.0559	mg/L		112	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		09/08/24 11:19
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		09/07/24 15:23
Calcium	2.00			2.03	mg/L		102	(80%-120%)		09/08/24 11:19
Chromium	0.0500			0.0506	mg/L		101	(80%-120%)		09/07/24 15:23
Cobalt	0.0500			0.0494	mg/L		98.8	(80%-120%)		

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Iron	2.00			1.99	mg/L		99.4	(80%-120%)	BAJ	09/07/24 15:23
Lead	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Lithium	0.0500			0.0525	mg/L		105	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		
Manganese	0.0500			0.0495	mg/L		99	(80%-120%)		
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)		
Potassium	2.00			2.03	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0521	mg/L		104	(80%-120%)		
Sodium	2.00			2.13	mg/L		107	(80%-120%)		
Thallium	0.0500			0.0474	mg/L		94.8	(80%-120%)		
QC1205838424 MB										
Antimony			U	ND	mg/L					09/07/24 15:20
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Boron			U	ND	mg/L				BAJ	09/08/24 11:18
Cadmium			U	ND	mg/L					09/07/24 15:20
Calcium			U	ND	mg/L					09/08/24 11:18
Chromium			U	ND	mg/L					09/07/24 15:20
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683173**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Thallium				U	ND	mg/L				BAJ	09/07/24 15:20
QC1205838426 683169001 MS											
Antimony	0.0500	U	ND		0.0528	mg/L		106	(75%-125%)		09/07/24 15:47
Arsenic	0.0500	U	ND		0.0542	mg/L		106	(75%-125%)		
Barium	0.0500		0.0164		0.0685	mg/L		104	(75%-125%)		
Beryllium	0.0500		0.00644		0.0655	mg/L		118	(75%-125%)		
Boron	0.100		1.31		1.41	mg/L		N/A	(75%-125%)		09/08/24 11:50
Cadmium	0.0500	J	0.000341		0.0521	mg/L		104	(75%-125%)		09/07/24 15:47
Calcium	2.00		26.7		29.2	mg/L		N/A	(75%-125%)		09/08/24 11:40
Chromium	0.0500	J	0.00328		0.0546	mg/L		103	(75%-125%)		09/07/24 15:47
Cobalt	0.0500		0.119		0.169	mg/L		101	(75%-125%)		
Iron	2.00	U	ND		2.04	mg/L		101	(75%-125%)		
Lead	0.0500	U	ND		0.0494	mg/L		98.3	(75%-125%)		
Lithium	0.0500		0.0200		0.0745	mg/L		109	(75%-125%)		
Magnesium	2.00		27.9		30.2	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683173**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Manganese	0.0500		1.26		1.30	mg/L		N/A	(75%-125%)	BAJ	09/07/24 16:03
Molybdenum	0.0500	U	ND		0.0559	mg/L		112	(75%-125%)		09/07/24 15:47
Potassium	2.00		5.23		7.47	mg/L		112	(75%-125%)		
Selenium	0.0500		0.0180		0.0714	mg/L		107	(75%-125%)		
Sodium	2.00		32.8		34.6	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0477	mg/L		95.1	(75%-125%)		
QC1205838427 683169001 MSD											
Antimony	0.0500	U	ND		0.0521	mg/L	1.44	104	(0%-20%)		09/07/24 15:50
Arsenic	0.0500	U	ND		0.0524	mg/L	3.41	102	(0%-20%)		
Barium	0.0500		0.0164		0.0676	mg/L	1.27	102	(0%-20%)		
Beryllium	0.0500		0.00644		0.0636	mg/L	2.89	114	(0%-20%)		
Boron	0.100		1.31		1.36	mg/L	4.08	N/A	(0%-20%)		09/08/24 11:51
Cadmium	0.0500	J	0.000341		0.0520	mg/L	0.292	103	(0%-20%)		09/07/24 15:50
Calcium	2.00		26.7		28.3	mg/L	2.95	N/A	(0%-20%)		09/08/24 11:41
Chromium	0.0500	J	0.00328		0.0528	mg/L	3.3	99.1	(0%-20%)		09/07/24 15:50

QC Summary

Workorder: **683173**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Cobalt	0.0500		0.119		0.165	mg/L	2.25	93	(0%-20%)	BAJ	09/07/24 15:50
Iron	2.00	U	ND		2.00	mg/L	2.01	99.1	(0%-20%)		
Lead	0.0500	U	ND		0.0489	mg/L	0.94	97.4	(0%-20%)		
Lithium	0.0500		0.0200		0.0738	mg/L	0.875	108	(0%-20%)		
Magnesium	2.00		27.9		29.4	mg/L	2.87	N/A	(0%-20%)		
Manganese	0.0500		1.26		1.25	mg/L	4.06	N/A	(0%-20%)		09/07/24 16:05
Molybdenum	0.0500	U	ND		0.0554	mg/L	0.967	111	(0%-20%)		09/07/24 15:50
Potassium	2.00		5.23		7.14	mg/L	4.48	95.4	(0%-20%)		
Selenium	0.0500		0.0180		0.0700	mg/L	1.97	104	(0%-20%)		
Sodium	2.00		32.8		33.9	mg/L	2.02	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0466	mg/L	2.37	92.9	(0%-20%)		
QC1205838428 683169001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			16.4	J	3.42	ug/L	4.18		(0%-20%)		

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Beryllium		6.44		1.25	ug/L	3.4		(0%-20%)	BAJ	09/07/24 15:56
Boron		131		31.0	ug/L	17.9		(0%-20%)		09/08/24 11:52
Cadmium	J	0.341	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Calcium		26700		5480	ug/L	2.83		(0%-20%)		09/08/24 11:43
Chromium	J	3.28	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Cobalt		119		24.5	ug/L	2.95		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		20.0	J	3.83	ug/L	4.15		(0%-20%)		
Magnesium		27900		5950	ug/L	6.39		(0%-20%)		
Manganese		126		25.3	ug/L	.101		(0%-20%)		09/07/24 16:08
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Potassium		5230		1060	ug/L	.798		(0%-20%)		
Selenium		18.0	J	3.83	ug/L	6.1		(0%-20%)		

QC Summary

Workorder: 683173

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Sodium		32800		6560	ug/L	.000277			(0%-20%)	BAJ	09/07/24 15:56
Thallium	U	ND	U	ND	ug/L	N/A			(0%-20%)		
Metals Analysis-Mercury											
Batch 2664552											
QC1205838870 683169001 DUP											
Mercury	U	ND	U	ND	mg/L	N/A				JP2	08/30/24 13:08
QC1205838869 LCS											
Mercury 0.00200				0.00204	mg/L			102	(80%-120%)		08/30/24 13:05
QC1205838868 MB											
Mercury			U	ND	mg/L						08/30/24 13:03
QC1205838871 683169001 MS											
Mercury 0.00200	U	ND		0.00203	mg/L			99.5	(75%-125%)		08/30/24 13:13
QC1205838872 683169001 SDILT											
Mercury	U	ND	U	ND	ug/L	N/A			(0%-10%)		08/30/24 13:15
Solids Analysis											
Batch 2666213											
QC1205842577 683169001 DUP											
Total Dissolved Solids		370		401	mg/L	8.04	*		(0%-5%)	KLP1	09/03/24 15:58
QC1205842578 683173007 DUP											
Total Dissolved Solids		180		178	mg/L	1.12			(0%-5%)		09/03/24 15:58
QC1205842576 LCS											
Total Dissolved Solids 300				294	mg/L			98	(95%-105%)		09/03/24 15:58

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2666213										
QC1205842575 MB										
Total Dissolved Solids			U	ND	mg/L				KLP1	09/03/24 15:58
Spectrometric Analysis										
Batch 2664625										
QC1205838996 LCS										
Total Sulfide	0.400			0.409	mg/L		102	(85%-115%)	JW2	08/29/24 11:00
QC1205838995 MB										
Total Sulfide			U	ND	mg/L					08/29/24 11:00
QC1205838997 683169001 PS										
Total Sulfide	0.400	U	ND	0.389	mg/L		97.2	(75%-125%)		08/29/24 11:00
QC1205838999 683176001 PS										
Total Sulfide	0.400	U	ND	0.401	mg/L		100	(75%-125%)		08/29/24 11:01
QC1205838998 683169001 PSD										
Total Sulfide	0.400	U	ND	0.378	mg/L	2.9	94.4	(0%-15%)		08/29/24 11:00
QC1205839000 683176001 PSD										
Total Sulfide	0.400	U	ND	0.393	mg/L	2.18	98.2	(0%-15%)		08/29/24 11:01
Titration and Ion Analysis										
Batch 2664341										
QC1205838409 LCS										
Alkalinity, Total as CaCO3	50.0			53.1	mg/L		106	(90%-110%)	JW2	08/28/24 16:28
QC1205838414 LCS										
Alkalinity, Total as CaCO3	15.0			14.4	mg/L		96	(90%-110%)		08/28/24 16:30
QC1205838415 LCSD										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L	0.377	106	(0%-20%)		08/28/24 16:29

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2664341											
QC1205838416 LCSD											
Alkalinity, Total as CaCO3	15.0			14.1	mg/L	2.11	94	(0%-20%)	JW2	08/28/24	16:31

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
***** Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2664353

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2664350

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838424	Method Blank (MB)**ICP-MS**
1205838425	Laboratory Control Sample (LCS)
1205838428	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838426	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)
1205838427	683169001(BRA-BRGWC-38SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683173003 (BRA-BRGWC-29I), 683173004 (BRA-BRGWC-27I), 683173005 (BRA-PZ-74I), 683173006 (BRA-PZ-75I), 683173007 (BRA-PZ-44) and 683173008 (BRA-APBCD-FD-01) were diluted to ensure that the analyte concentrations were within the linear

calibration range of the instrument.

Analyte	683173					
	003	**004**	**005**	**006**	**007**	**008**
Boron	10X	10X	10X	10X	10X	10X
Calcium	10X	10X	10X	10X	1X	10X
Manganese	10X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2664552

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2664551

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838868	Method Blank (MB)**CVAA**
1205838869	Laboratory Control Sample (LCS)
1205838872	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838870	683169001(BRA-BRGWC-38SD) Sample Duplicate (DUP)
1205838871	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2664366

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838461	Method Blank (MB)
1205838462	Laboratory Control Sample (LCS)
1205838463	683173001(BRA-BRGWA-23S) Sample Duplicate (DUP)
1205838464	683173001(BRA-BRGWA-23S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 683173003 (BRA-BRGWC-29I), 683173004 (BRA-BRGWC-27I), 683173005 (BRA-PZ-74I), 683173006 (BRA-PZ-75I), 683173007 (BRA-PZ-44) and 683173008 (BRA-APBCD-FD-01) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205838463 (BRA-BRGWA-23SDUP), 1205838464 (BRA-BRGWA-23SPS) and 683173001 (BRA-BRGWA-23S) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683173						
	001	**003**	**004**	**005**	**006**	**007**	**008**
Chloride	1X	1X	1X	25X	1X	1X	1X
Nitrate-N	2X	1X	1X	1X	1X	1X	1X
Sulfate	1X	25X	25X	25X	25X	5X	20X

Miscellaneous Information

Manual Integrations
Samples 683173003 (BRA-BRGWC-29I) and 683173008 (BRA-APBCD-FD-01) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666213

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205842575	Method Blank (MB)
1205842576	Laboratory Control Sample (LCS)
1205842577	683169001(BRA-BRGWC-38S) Sample Duplicate (DUP)
1205842578	683173007(BRA-PZ-44) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205842577 (BRA-BRGWC-38SDUP)	8.04* (0%-5%)

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2664625

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838995	Method Blank (MB)

1205838996	Laboratory Control Sample (LCS)
1205838997	683169001(BRA-BRGWC-38S) Post Spike (PS)
1205838998	683169001(BRA-BRGWC-38S) Post Spike Duplicate (PSD)
1205838999	683176001(BRA-BRGWA-2S) Post Spike (PS)
1205839000	683176001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2664341

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838409	Laboratory Control Sample (LCS)
1205838414	Laboratory Control Sample (LCS)
1205838415	Laboratory Control Sample Duplicate (LCSD)
1205838416	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

683174 | 683173

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Beasford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- BRGWA-23S	08/27/24	1230	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S2
BRA- APBCD-FB-01	08/27/24	1525	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA- BRGWC-29I	08/27/24	1545	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- BRGWC-27I	08/27/24	1537	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- PZ-74I	08/27/24	1212	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- PZ-75I	08/27/24	1400	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- PZ-44	08/27/24	1721	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- APBCD-FD-01	08/27/24	✓	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- APBCD-EB-04	08/27/24	1745	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/28/24	0827	[signature]	8/28/24	0827
2				[signature]	8/28/24	1310
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683170 683169
683173 683174
683176 683177

GEL | Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			GWA-2I metals container has no label
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683176

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683176001	BRA-BRGWA-2S	Ground Water	08/27/24 09:45	08/28/24 08:27
683176002	BRA-BRGWA-5S	Ground Water	08/27/24 09:50	08/28/24 08:27
683176003	BRA-BRGWA-2I	Ground Water	08/27/24 10:08	08/28/24 08:27
683176004	BRA-BRGWA-5I	Ground Water	08/27/24 09:47	08/28/24 08:27
683176005	BRA-BRGWA-6S	Ground Water	08/27/24 11:35	08/28/24 08:27

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	29-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	28-AUG-2024
SM 2320B	28-AUG-2024
SM 2540C	03-SEP-2024

SM 4500-S (2-) D	29-AUG-2024
SW846 3005A/6020B	07-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	30-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683176 GEL Work Order: 683176

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-2S	Project:	GPCC00101
Sample ID:	683176001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 09:45		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.17	0.0670	0.200	mg/L		1	CH6	08/28/24	1709	2663917	1
Fluoride	J	0.0426	0.0330	0.100	mg/L		1					
Nitrate-N		0.176	0.0330	0.100	mg/L		1					
Sulfate		0.444	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1345	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1211	2664353	3
Calcium		5.45	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1724	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0132	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00799	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000772	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0560	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.49	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0293	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.431	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.51	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		51.0	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-2S
Sample ID: 683176001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		38.0	0.725	2.00	mg/L			JW2	08/28/24	1651	2664341	7
Bicarbonate alkalinity (CaCO3)		38.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-5S	Project:	GPCC00101
Sample ID:	683176002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 09:50		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.49	0.0670	0.200	mg/L		1	CH6	08/28/24	1841	2663917	1
Fluoride	J	0.0516	0.0330	0.100	mg/L		1					
Nitrate-N		0.241	0.0330	0.100	mg/L		1					
Sulfate		0.652	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1346	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.00538	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1213	2664353	3
Calcium		17.2	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1727	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0362	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00604	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0458	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.38	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00602	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.499	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.89	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		101	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-5S
Sample ID: 683176002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.8	0.725	2.00	mg/L			JW2	08/28/24	1653	2664341	7
Bicarbonate alkalinity (CaCO3)		79.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-2I	Project:	GPCC00101
Sample ID:	683176003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 10:08		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.16	0.0670	0.200	mg/L		1	CH6	08/28/24	1912	2663917	1
Fluoride	J	0.0342	0.0330	0.100	mg/L		1					
Nitrate-N		0.321	0.0330	0.100	mg/L		1					
Sulfate		2.58	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1348	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1730	2664353	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00493	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00445	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00105	0.000300	0.00100	mg/L	1.00	1					
Iron		0.153	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00584	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.55	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0107	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000313	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.08	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.74	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1214	2664353	4
Calcium		12.4	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		82.0	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-2I
Sample ID: 683176003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		67.8	0.725	2.00	mg/L			JW2	08/28/24	1654	2664341	7
Bicarbonate alkalinity (CaCO3)		67.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	683176004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 09:47		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.88	0.0670	0.200	mg/L		1	CH6	08/28/24	1943	2663917	1
Fluoride	J	0.0365	0.0330	0.100	mg/L		1					
Nitrate-N		0.368	0.0330	0.100	mg/L		1					
Sulfate		2.67	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1353	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1215	2664353	3
Calcium		15.9	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1733	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0314	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00521	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000396	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00337	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.79	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00134	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.34	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.86	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		107	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	683176004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.5	0.725	2.00	mg/L			JW2	08/28/24	1655	2664341	7
Bicarbonate alkalinity (CaCO3)		79.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-6S	Project:	GPCC00101
Sample ID:	683176005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 11:35		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.28	0.0670	0.200	mg/L		1	CH6	08/28/24	2014	2663917	1
Fluoride	J	0.0334	0.0330	0.100	mg/L		1					
Nitrate-N		0.713	0.0330	0.100	mg/L		1					
Sulfate		0.465	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1355	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1736	2664353	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0159	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0124	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00322	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.21	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.736	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.54	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1217	2664353	4
Calcium		4.19	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		57.0	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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Certificate of Analysis

Report Date: September 12, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-6S
Sample ID: 683176005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.8	0.725	2.00	mg/L			JW2	08/28/24	1656	2664341	7
Bicarbonate alkalinity (CaCO3)		27.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 12, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2663917										
QC1205837518 683030001 DUP										
Chloride		44.7		45.3	mg/L	1.27		(0%-20%)	CH6	08/28/24 22:48
Fluoride		0.417		0.375	mg/L	10.5 ^		(+/-0.100)		08/28/24 12:59
Nitrate-N		0.124		0.123	mg/L	0.243 ^		(+/-0.100)		
Sulfate		24.7		24.6	mg/L	0.523		(0%-20%)		08/28/24 22:48
QC1205837517 LCS										
Chloride	5.00			4.79	mg/L		95.8	(90%-110%)		08/28/24 14:32
Fluoride	2.50			2.39	mg/L		95.6	(90%-110%)		
Nitrate-N	2.50			2.42	mg/L		96.7	(90%-110%)		
Sulfate	10.0			9.61	mg/L		96.1	(90%-110%)		
QC1205837516 MB										
Chloride			U	ND	mg/L					08/28/24 14:01
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2663917										
QC1205837519 683030001 PS										
Chloride	5.00	4.47		10.0	mg/L		110	(90%-110%)	CH6	08/28/24 23:19
Fluoride	2.50	0.417		2.87	mg/L		98	(90%-110%)		08/28/24 13:30
Nitrate-N	2.50	0.124		2.51	mg/L		95.4	(90%-110%)		
Sulfate	10.0	2.47		12.2	mg/L		97.5	(90%-110%)		08/28/24 23:19
Metals Analysis - ICPMS										
Batch 2664353										
QC1205838425 LCS										
Antimony	0.0500			0.0500	mg/L		99.9	(80%-120%)	BAJ	09/07/24 15:23
Arsenic	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500			0.0514	mg/L		103	(80%-120%)		
Beryllium	0.0500			0.0559	mg/L		112	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		09/08/24 11:19
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		09/07/24 15:23
Calcium	2.00			2.03	mg/L		102	(80%-120%)		09/08/24 11:19
Chromium	0.0500			0.0506	mg/L		101	(80%-120%)		09/07/24 15:23
Cobalt	0.0500			0.0494	mg/L		98.8	(80%-120%)		

QC Summary

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Iron	2.00			1.99	mg/L		99.4	(80%-120%)	BAJ	09/07/24 15:23
Lead	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Lithium	0.0500			0.0525	mg/L		105	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		
Manganese	0.0500			0.0495	mg/L		99	(80%-120%)		
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)		
Potassium	2.00			2.03	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0521	mg/L		104	(80%-120%)		
Sodium	2.00			2.13	mg/L		107	(80%-120%)		
Thallium	0.0500			0.0474	mg/L		94.8	(80%-120%)		
QC1205838424 MB										
Antimony			U	ND	mg/L					09/07/24 15:20
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Boron			U	ND	mg/L				BAJ	09/08/24 11:18
Cadmium			U	ND	mg/L					09/07/24 15:20
Calcium			U	ND	mg/L					09/08/24 11:18
Chromium			U	ND	mg/L					09/07/24 15:20
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683176**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Thallium				U	ND	mg/L				BAJ	09/07/24 15:20
QC1205838426 683169001 MS											
Antimony	0.0500	U	ND		0.0528	mg/L		106	(75%-125%)		09/07/24 15:47
Arsenic	0.0500	U	ND		0.0542	mg/L		106	(75%-125%)		
Barium	0.0500		0.0164		0.0685	mg/L		104	(75%-125%)		
Beryllium	0.0500		0.00644		0.0655	mg/L		118	(75%-125%)		
Boron	0.100		1.31		1.41	mg/L		N/A	(75%-125%)		09/08/24 11:50
Cadmium	0.0500	J	0.000341		0.0521	mg/L		104	(75%-125%)		09/07/24 15:47
Calcium	2.00		26.7		29.2	mg/L		N/A	(75%-125%)		09/08/24 11:40
Chromium	0.0500	J	0.00328		0.0546	mg/L		103	(75%-125%)		09/07/24 15:47
Cobalt	0.0500		0.119		0.169	mg/L		101	(75%-125%)		
Iron	2.00	U	ND		2.04	mg/L		101	(75%-125%)		
Lead	0.0500	U	ND		0.0494	mg/L		98.3	(75%-125%)		
Lithium	0.0500		0.0200		0.0745	mg/L		109	(75%-125%)		
Magnesium	2.00		27.9		30.2	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683176**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Manganese	0.0500		1.26		1.30	mg/L		N/A	(75%-125%)	BAJ	09/07/24 16:03
Molybdenum	0.0500	U	ND		0.0559	mg/L		112	(75%-125%)		09/07/24 15:47
Potassium	2.00		5.23		7.47	mg/L		112	(75%-125%)		
Selenium	0.0500		0.0180		0.0714	mg/L		107	(75%-125%)		
Sodium	2.00		32.8		34.6	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0477	mg/L		95.1	(75%-125%)		
QC1205838427 683169001 MSD											
Antimony	0.0500	U	ND		0.0521	mg/L	1.44	104	(0%-20%)		09/07/24 15:50
Arsenic	0.0500	U	ND		0.0524	mg/L	3.41	102	(0%-20%)		
Barium	0.0500		0.0164		0.0676	mg/L	1.27	102	(0%-20%)		
Beryllium	0.0500		0.00644		0.0636	mg/L	2.89	114	(0%-20%)		
Boron	0.100		1.31		1.36	mg/L	4.08	N/A	(0%-20%)		09/08/24 11:51
Cadmium	0.0500	J	0.000341		0.0520	mg/L	0.292	103	(0%-20%)		09/07/24 15:50
Calcium	2.00		26.7		28.3	mg/L	2.95	N/A	(0%-20%)		09/08/24 11:41
Chromium	0.0500	J	0.00328		0.0528	mg/L	3.3	99.1	(0%-20%)		09/07/24 15:50

QC Summary

Workorder: **683176**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2664353												
Cobalt	0.0500		0.119		0.165	mg/L	2.25	93	(0%-20%)	BAJ	09/07/24	15:50
Iron	2.00	U	ND		2.00	mg/L	2.01	99.1	(0%-20%)			
Lead	0.0500	U	ND		0.0489	mg/L	0.94	97.4	(0%-20%)			
Lithium	0.0500		0.0200		0.0738	mg/L	0.875	108	(0%-20%)			
Magnesium	2.00		27.9		29.4	mg/L	2.87	N/A	(0%-20%)			
Manganese	0.0500		1.26		1.25	mg/L	4.06	N/A	(0%-20%)		09/07/24	16:05
Molybdenum	0.0500	U	ND		0.0554	mg/L	0.967	111	(0%-20%)		09/07/24	15:50
Potassium	2.00		5.23		7.14	mg/L	4.48	95.4	(0%-20%)			
Selenium	0.0500		0.0180		0.0700	mg/L	1.97	104	(0%-20%)			
Sodium	2.00		32.8		33.9	mg/L	2.02	N/A	(0%-20%)			
Thallium	0.0500	U	ND		0.0466	mg/L	2.37	92.9	(0%-20%)			
QC1205838428 683169001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	15:56
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			16.4	J	3.42	ug/L	4.18		(0%-20%)			

QC Summary

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Beryllium		6.44		1.25	ug/L	3.4		(0%-20%)	BAJ	09/07/24 15:56
Boron		131		31.0	ug/L	17.9		(0%-20%)		09/08/24 11:52
Cadmium	J	0.341	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Calcium		26700		5480	ug/L	2.83		(0%-20%)		09/08/24 11:43
Chromium	J	3.28	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Cobalt		119		24.5	ug/L	2.95		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		20.0	J	3.83	ug/L	4.15		(0%-20%)		
Magnesium		27900		5950	ug/L	6.39		(0%-20%)		
Manganese		126		25.3	ug/L	.101		(0%-20%)		09/07/24 16:08
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Potassium		5230		1060	ug/L	.798		(0%-20%)		
Selenium		18.0	J	3.83	ug/L	6.1		(0%-20%)		

QC Summary

Workorder: 683176

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Sodium		32800		6560	ug/L	.000277		(0%-20%)	BAJ	09/07/24 15:56
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2664552										
QC1205838870 683169001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/30/24 13:08
QC1205838869 LCS										
Mercury	0.00200			0.00204	mg/L		102	(80%-120%)		08/30/24 13:05
QC1205838868 MB										
Mercury			U	ND	mg/L					08/30/24 13:03
QC1205838871 683169001 MS										
Mercury	0.00200	U	ND	0.00203	mg/L		99.5	(75%-125%)		08/30/24 13:13
QC1205838872 683169001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		08/30/24 13:15
Solids Analysis										
Batch 2666209										
QC1205842574 683236002 DUP										
Total Dissolved Solids		238		236	mg/L	0.844		(0%-5%)	KLP1	09/03/24 15:31
QC1205842572 LCS										
Total Dissolved Solids	300			298	mg/L		99.3	(95%-105%)		09/03/24 15:31
QC1205842571 MB										
Total Dissolved Solids			U	ND	mg/L					09/03/24 15:31

QC Summary

Workorder: 683176

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2664625										
QC1205838996 LCS										
Total Sulfide	0.400			0.409	mg/L		102	(85%-115%)	JW2	08/29/24 11:00
QC1205838995 MB										
Total Sulfide			U	ND	mg/L					08/29/24 11:00
QC1205838997 683169001 PS										
Total Sulfide	0.400	U	ND	0.389	mg/L		97.2	(75%-125%)		08/29/24 11:00
QC1205838999 683176001 PS										
Total Sulfide	0.400	U	ND	0.401	mg/L		100	(75%-125%)		08/29/24 11:01
QC1205838998 683169001 PSD										
Total Sulfide	0.400	U	ND	0.378	mg/L	2.9	94.4	(0%-15%)		08/29/24 11:00
QC1205839000 683176001 PSD										
Total Sulfide	0.400	U	ND	0.393	mg/L	2.18	98.2	(0%-15%)		08/29/24 11:01
Titration and Ion Analysis										
Batch 2664341										
QC1205838409 LCS										
Alkalinity, Total as CaCO3	50.0			53.1	mg/L		106	(90%-110%)	JW2	08/28/24 16:28
QC1205838414 LCS										
Alkalinity, Total as CaCO3	15.0			14.4	mg/L		96	(90%-110%)		08/28/24 16:30
QC1205838415 LCSD										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L	0.377	106	(0%-20%)		08/28/24 16:29
QC1205838416 LCSD										
Alkalinity, Total as CaCO3	15.0			14.1	mg/L	2.11	94	(0%-20%)		08/28/24 16:31

Notes:

QC Summary

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2664353

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2664350

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205838424	Method Blank (MB)**ICP-MS**
1205838425	Laboratory Control Sample (LCS)
1205838428	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838426	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)
1205838427	683169001(BRA-BRGWC-38SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2664552

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2664551

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205838868	Method Blank (MB)**CVAA**
1205838869	Laboratory Control Sample (LCS)
1205838872	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838870	683169001(BRA-BRGWC-38SD) Sample Duplicate (DUP)
1205838871	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2663917

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205837516	Method Blank (MB)
1205837517	Laboratory Control Sample (LCS)
1205837518	683030001(NonSDG) Sample Duplicate (DUP)
1205837519	683030001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205837518 (Non SDG 683030001DUP) and 1205837519 (Non SDG 683030001PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many

reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Miscellaneous Information

Manual Integrations
Samples 683176001 (BRA-BRGWA-2S), 683176002 (BRA-BRGWA-5S), 683176003 (BRA-BRGWA-2I), 683176004 (BRA-BRGWA-5I) and 683176005 (BRA-BRGWA-6S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666209

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205842571	Method Blank (MB)
1205842572	Laboratory Control Sample (LCS)
1205842574	683236002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2664625

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205838995	Method Blank (MB)
1205838996	Laboratory Control Sample (LCS)
1205838997	683169001(BRA-BRGWC-38S) Post Spike (PS)
1205838998	683169001(BRA-BRGWC-38S) Post Spike Duplicate (PSD)

1205838999	683176001(BRA-BRGWA-2S) Post Spike (PS)
1205839000	683176001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2664341

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205838409	Laboratory Control Sample (LCS)
1205838414	Laboratory Control Sample (LCS)
1205838415	Laboratory Control Sample Duplicate (LCSD)
1205838416	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

683177 | 683176

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Berisford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 NI	Radium 226 & 228 SW-846 9315, 9320 NI	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWA-2S	08/27/24	0945	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5S	08/27/24	0950	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-2I	08/27/24	1008	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5I	08/27/24	0947	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-6S	08/27/24	1135	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/28/24	0827	1	8/28/24	0927
2			2	8/28/24	1310
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683170 683169
683173 683174
683176 683177

GEL | Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	GWA-2I metals container has no label
13	COC form is properly signed in relinquished/received sections?			✓	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HTB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 10, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683390

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683390001	BRA-BRGWC-30I	Ground Water	08/28/24 13:05	08/29/24 13:10
683390002	BRA-BRGWC-47	Ground Water	08/28/24 15:38	08/29/24 13:10
683390003	BRA-APBCD-FB-02	Water	08/28/24 16:30	08/29/24 13:10
683390004	BRA-BRGWC-52I	Ground Water	08/28/24 16:32	08/29/24 13:10
683390005	BRA-BRGWC-32S	Ground Water	08/28/24 16:27	08/29/24 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	30-AUG-2024
SW846 7470A Prep	30-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	29-AUG-2024
EPA 300.0	30-AUG-2024
SM 2320B	29-AUG-2024

SM 2540C	04-SEP-2024
SM 4500-S (2-) D	30-AUG-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	03-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683390 GEL Work Order: 683390

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-30I	Project:	GPCC00101
Sample ID:	683390001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 13:05		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.48	0.335	1.00	mg/L		5	CH6	08/29/24	1823	2664760	1
Fluoride	J	0.336	0.165	0.500	mg/L		5					
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Sulfate		1260	26.6	80.0	mg/L		200	CH6	08/30/24	0644	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1226	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.82	0.104	0.300	mg/L	1.00	20	PRB	09/08/24	1646	2665210	4
Calcium		419	1.60	4.00	mg/L	1.00	20					
Magnesium		57.8	0.200	0.600	mg/L	1.00	20					
Manganese		1.52	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1544	2665210	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0339	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00149	0.000300	0.00100	mg/L	1.00	1					
Iron		2.57	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0295	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00123	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.86	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		29.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2030	23.8	100	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	7

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-30I
Sample ID: 683390001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		141	0.725	2.00	mg/L			JW2	08/29/24	1648	2665165	8
Bicarbonate alkalinity (CaCO3)		141	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-47	Project:	GPCC00101
Sample ID:	683390002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 15:38		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1310	13.3	40.0	mg/L		100	CH6	08/29/24	1854	2664760	1
Chloride		4.57	0.134	0.400	mg/L		2	CH6	08/29/24	2332	2664760	2
Fluoride	U	ND	0.0660	0.200	mg/L		2					
Nitrate-N	J	0.176	0.0660	0.200	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1227	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1548	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0257	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.119	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0436	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.00704	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000252	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.1	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		38.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.508	0.0520	0.150	mg/L	1.00	10	PRB	09/08/24	1709	2665210	5
Calcium		302	0.800	2.00	mg/L	1.00	10					
Magnesium		114	0.100	0.300	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1780	23.8	100	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1033	2665386	7

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 683390002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.8	0.725	2.00	mg/L			JW2	08/29/24	1650	2665165	8
Bicarbonate alkalinity (CaCO3)		27.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APBCD-FB-02	Project:	GPCC00101
Sample ID:	683390003	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	28-AUG-24 16:30		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/29/24	1925	2664760	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1229	2665310	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1551	2665210	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00979	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	3.00	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1033	2665386	5

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Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 683390003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/24	1651	2665165	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-52I	Project:	GPCC00101
Sample ID:	683390004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 16:32		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.58	0.0670	0.200	mg/L		1	CH6	08/29/24	1956	2664760	1
Fluoride	J	0.0748	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		150	1.33	4.00	mg/L		10	CH6	08/30/24	0715	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1231	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1555	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0345	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		36.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.578	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00997	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.5	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.558	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000691	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.35	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.44	0.0520	0.150	mg/L	1.00	10	PRB	09/08/24	1712	2665210	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		310	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1033	2665386	7

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Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-52I
Sample ID: 683390004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		52.8	0.725	2.00	mg/L			JW2	08/29/24	1652	2665165	8
Bicarbonate alkalinity (CaCO3)		52.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-32S	Project:	GPCC00101
Sample ID:	683390005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 16:27		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		201	2.66	8.00	mg/L		20	CH6	08/30/24	0746	2664760	1
Chloride		4.09	0.0670	0.200	mg/L		1	CH6	08/29/24	2027	2664760	2
Fluoride	J	0.0511	0.0330	0.100	mg/L		1					
Nitrate-N		0.213	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1232	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1558	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0163	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		37.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00514	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.1	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.26	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0945	0.00150	0.00500	mg/L	1.00	1					
Sodium		24.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.996	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/24	1616	2665210	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		374	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1033	2665386	7

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-32S
Sample ID: 683390005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		30.1	0.725	2.00	mg/L			JW2	08/29/24	1653	2665165	8
Bicarbonate alkalinity (CaCO3)		30.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 10, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2664760												
QC1205840176 683390005 DUP												
Chloride			4.09		4.08	mg/L	0.414			(0%-20%)	CH6	08/29/24 21:59
Fluoride		J	0.0511	J	0.0487	mg/L	4.81	^		(+/-0.100)		
Nitrate-N			0.213		0.211	mg/L	1.04	^		(+/-0.100)		
Sulfate			201		201	mg/L	0.189			(0%-20%)		08/30/24 08:17
QC1205839267 LCS												
Chloride	5.00				4.91	mg/L			98.3	(90%-110%)		08/29/24 14:32
Fluoride	2.50				2.37	mg/L			94.8	(90%-110%)		
Nitrate-N	2.50				2.49	mg/L			99.7	(90%-110%)		
Sulfate	10.0				9.59	mg/L			95.9	(90%-110%)		
QC1205839266 MB												
Chloride				U	ND	mg/L						08/29/24 14:01
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						

QC Summary

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2664760											
QC1205840177 683390005 PS											
Chloride	5.00		4.09		9.56	mg/L		109	(90%-110%)	CH6	08/29/24 22:30
Fluoride	2.50	J	0.0511		2.48	mg/L		97.3	(90%-110%)		
Nitrate-N	2.50		0.213		2.70	mg/L		99.3	(90%-110%)		
Sulfate	10.0		10.1		20.2	mg/L		102	(90%-110%)		08/30/24 08:47
Metals Analysis - ICPMS											
Batch 2665210											
QC1205840131 LCS											
Antimony	0.0500				0.0483	mg/L		96.7	(80%-120%)	PRB	09/08/24 13:41
Arsenic	0.0500				0.0481	mg/L		96.2	(80%-120%)		
Barium	0.0500				0.0496	mg/L		99.3	(80%-120%)		
Beryllium	0.0500				0.0533	mg/L		107	(80%-120%)		
Boron	0.100				0.101	mg/L		101	(80%-120%)		
Cadmium	0.0500				0.0499	mg/L		99.7	(80%-120%)		
Calcium	2.00				2.05	mg/L		103	(80%-120%)		
Chromium	0.0500				0.0484	mg/L		96.8	(80%-120%)		
Cobalt	0.0500				0.0486	mg/L		97.3	(80%-120%)		

QC Summary

Workorder: **683390**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Iron	2.00			1.95	mg/L		97.4	(80%-120%)	PRB	09/08/24 13:41
Lead	0.0500			0.0495	mg/L		99	(80%-120%)		
Lithium	0.0500			0.0510	mg/L		102	(80%-120%)		
Magnesium	2.00			1.97	mg/L		98.5	(80%-120%)		
Manganese	0.0500			0.0488	mg/L		97.6	(80%-120%)		
Molybdenum	0.0500			0.0527	mg/L		105	(80%-120%)		
Potassium	2.00			1.95	mg/L		97.6	(80%-120%)		
Selenium	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Sodium	2.00			1.94	mg/L		96.9	(80%-120%)		
Thallium	0.0500			0.0451	mg/L		90.1	(80%-120%)		
QC1205840130 MB										
Antimony			U	ND	mg/L					09/08/24 13:37
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683390**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Boron			U	ND	mg/L				PRB	09/08/24 13:37
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665210											
Thallium				U	ND	mg/L				PRB	09/08/24 13:37
QC1205840132 683387001 MS											
Antimony	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		09/08/24 13:56
Arsenic	0.0500	U	ND		0.0501	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0502		0.102	mg/L		103	(75%-125%)		
Beryllium	0.0500	U	ND		0.0538	mg/L		108	(75%-125%)		
Boron	0.100		0.0721		0.180	mg/L		108	(75%-125%)		
Cadmium	0.0500	U	ND		0.0494	mg/L		98.7	(75%-125%)		
Calcium	2.00		46.4		50.5	mg/L		N/A	(75%-125%)		
Chromium	0.0500		0.0101		0.0592	mg/L		98.1	(75%-125%)		
Cobalt	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
Iron	2.00	U	ND		1.98	mg/L		98	(75%-125%)		
Lead	0.0500	U	ND		0.0490	mg/L		98.1	(75%-125%)		
Lithium	0.0500	U	ND		0.0529	mg/L		103	(75%-125%)		
Magnesium	2.00		26.0		28.7	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665210											
Manganese	0.0500	U	ND		0.0497	mg/L		98.8	(75%-125%)	PRB	09/08/24 13:56
Molybdenum	0.0500	U	ND		0.0522	mg/L		104	(75%-125%)		
Potassium	2.00		1.22		3.25	mg/L		101	(75%-125%)		
Selenium	0.0500	J	0.00304		0.0542	mg/L		102	(75%-125%)		
Sodium	2.00		23.4		26.4	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0450	mg/L		89.8	(75%-125%)		
QC1205840133 683387001 MSD											
Antimony	0.0500	U	ND		0.0488	mg/L	3.08	97.3	(0%-20%)		09/08/24 13:59
Arsenic	0.0500	U	ND		0.0480	mg/L	4.26	95	(0%-20%)		
Barium	0.0500		0.0502		0.0974	mg/L	4.41	94.3	(0%-20%)		
Beryllium	0.0500	U	ND		0.0527	mg/L	2.06	105	(0%-20%)		
Boron	0.100		0.0721		0.172	mg/L	4.57	100	(0%-20%)		
Cadmium	0.0500	U	ND		0.0473	mg/L	4.2	94.7	(0%-20%)		
Calcium	2.00		46.4		48.0	mg/L	5.08	N/A	(0%-20%)		
Chromium	0.0500		0.0101		0.0573	mg/L	3.27	94.3	(0%-20%)		

QC Summary

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665210											
Cobalt	0.0500	U	ND		0.0479	mg/L	1.75	95.7	(0%-20%)	PRB	09/08/24 13:59
Iron	2.00	U	ND		1.95	mg/L	1.54	96.5	(0%-20%)		
Lead	0.0500	U	ND		0.0475	mg/L	3.08	95.1	(0%-20%)		
Lithium	0.0500	U	ND		0.0509	mg/L	3.94	99.4	(0%-20%)		
Magnesium	2.00		26.0		27.4	mg/L	4.43	N/A	(0%-20%)		
Manganese	0.0500	U	ND		0.0485	mg/L	2.41	96.4	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0507	mg/L	2.92	101	(0%-20%)		
Potassium	2.00		1.22		3.13	mg/L	3.65	95.6	(0%-20%)		
Selenium	0.0500	J	0.00304		0.0516	mg/L	4.88	97.1	(0%-20%)		
Sodium	2.00		23.4		24.8	mg/L	6.05	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0438	mg/L	2.58	87.5	(0%-20%)		
QC1205840134 683387001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24 14:07
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			50.2		10.0	ug/L	.157		(0%-20%)		

QC Summary

Workorder: **683390**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/08/24 14:07
Boron		72.1	J	13.8	ug/L	4.32		(0%-20%)		
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium		46400		9270	ug/L	.154		(0%-20%)		
Chromium		10.1	U	ND	ug/L	N/A		(0%-20%)		
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		26000		5170	ug/L	.621		(0%-20%)		
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		1220	J	246	ug/L	.831		(0%-20%)		
Selenium	J	3.04	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: 683390

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Sodium		23400		4590	ug/L	1.92		(0%-20%)	PRB	09/08/24 14:07
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2665310										
QC1205840305 683387001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/03/24 11:56
QC1205840304 LCS										
Mercury	0.00200			0.00202	mg/L		101	(80%-120%)		09/03/24 11:53
QC1205840303 MB										
Mercury			U	ND	mg/L					09/03/24 11:51
QC1205840306 683387001 MS										
Mercury	0.00200	U	ND	0.00194	mg/L		96.8	(75%-125%)		09/03/24 12:01
QC1205840307 683387001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/03/24 12:03
Solids Analysis										
Batch 2666217										
QC1205842587 683390004 DUP										
Total Dissolved Solids		310		314	mg/L	1.28		(0%-5%)	KLP1	09/04/24 10:45
QC1205842586 LCS										
Total Dissolved Solids	300			291	mg/L		97	(95%-105%)		09/04/24 10:45
QC1205842585 MB										
Total Dissolved Solids			U	ND	mg/L					09/04/24 10:45

QC Summary

Workorder: 683390

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2665386										
QC1205840474 LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	JW2	08/30/24 10:32
QC1205840473 MB										
Total Sulfide			U	ND	mg/L					08/30/24 10:32
QC1205840475 683164001 PS										
Total Sulfide	0.400 U	ND		0.399	mg/L		99.6	(75%-125%)		08/30/24 10:32
QC1205840476 683164001 PSD										
Total Sulfide	0.400 U	ND		0.388	mg/L	2.81	96.9	(0%-15%)		08/30/24 10:32
Titration and Ion Analysis										
Batch 2665165										
QC1205839997 LCS										
Alkalinity, Total as CaCO3	50.0			50.5	mg/L		101	(90%-110%)	JW2	08/29/24 16:29
QC1205839998 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)		08/29/24 16:31
QC1205839999 LCSD										
Alkalinity, Total as CaCO3	50.0			50.9	mg/L	0.789	102	(0%-20%)		08/29/24 16:30
QC1205840000 LCSD										
Alkalinity, Total as CaCO3	15.0			14.7	mg/L	2.02	98	(0%-20%)		08/29/24 16:32

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded

QC Summary

Workorder: **683390**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 683390

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665210

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665209

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205840130	Method Blank (MB)**ICP-MS**
1205840131	Laboratory Control Sample (LCS)
1205840134	683387001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205840132	683387001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205840133	683387001(BRA-BRGWC-17SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683390001 (BRA-BRGWC-30I), 683390002 (BRA-BRGWC-47), 683390004 (BRA-BRGWC-52I) and 683390005 (BRA-BRGWC-32S) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683390			
	001	002	004	005

Boron	20X	10X	10X	5X
Calcium	20X	10X	1X	1X
Magnesium	20X	10X	1X	1X
Manganese	20X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665310

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665309

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205840303	Method Blank (MB)**CVAA**
1205840304	Laboratory Control Sample (LCS)
1205840307	683387001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205840305	683387001(BRA-BRGWC-17SD) Sample Duplicate (DUP)
1205840306	683387001(BRA-BRGWC-17SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2664760

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I

683390005	BRA-BRGWC-32S
1205839266	Method Blank (MB)
1205839267	Laboratory Control Sample (LCS)
1205840176	683390005(BRA-BRGWC-32S) Sample Duplicate (DUP)
1205840177	683390005(BRA-BRGWC-32S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 683390001 (BRA-BRGWC-30I), 683390004 (BRA-BRGWC-52I) and 683390005 (BRA-BRGWC-32S) were diluted because target analyte concentrations exceeded the calibration range. Samples 683390001 (BRA-BRGWC-30I) and 683390002 (BRA-BRGWC-47) were diluted to minimize matrix effects on instrument performance. Sample 683390002 (BRA-BRGWC-47) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683390			
	001	**002**	**004**	**005**
Chloride	5X	2X	1X	1X
Fluoride	5X	2X	1X	1X
Nitrate-N	5X	2X	1X	1X
Sulfate	200X	100X	10X	20X

Miscellaneous Information

Manual Integrations
Samples 1205840176 (BRA-BRGWC-32SDUP), 1205840177 (BRA-BRGWC-32SPS), 683390004 (BRA-BRGWC-52I) and 683390005 (BRA-BRGWC-32S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666217

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205842585	Method Blank (MB)

1205842586	Laboratory Control Sample (LCS)
1205842587	683390004(BRA-BRGWC-52I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 683390001 (BRA-BRGWC-30I) and 683390002 (BRA-BRGWC-47).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2665386

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205840473	Method Blank (MB)
1205840474	Laboratory Control Sample (LCS)
1205840475	683164001(NonSDG) Post Spike (PS)
1205840476	683164001(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205840475 (Non SDG 683164001PS) and 1205840476 (Non SDG 683164001PSD) in this sample group were diluted due to limited sample quantity. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16

Analytical Batch: 2665165

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205839997	Laboratory Control Sample (LCS)
1205839998	Laboratory Control Sample (LCS)
1205839999	Laboratory Control Sample Duplicate (LCSD)
1205840000	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

683390/683391

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: D. Rochford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- BRGWC-30I	08/28/24	1305	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC **Task_Code: BRA-CCR-ASSMT-2024S2**
BRA- BRGWC-47	08/28/24	1538	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- APBCD-FB-02	08/28/24	1630	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA- BRGWC-52I	08/28/24	1632	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- BRGWC-32S	08/28/24	1627	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/29/24	0822		8/29/24	0822
2					8/29/24	1310
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ○ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683390/683391 AP

683387/683389

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 0° 3 - 0° 5 - 0 2 - 0° 4 - 0° 6 - 1°

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with cooler
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓		✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HPB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 10 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 10, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683387

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683387001	BRA-BRGWC-17S	Ground Water	08/28/24 12:13	08/29/24 13:10
683387002	BRA-BRGWC-33S	Ground Water	08/28/24 14:22	08/29/24 13:10
683387003	BRA-BRGWC-34S	Ground Water	08/28/24 12:43	08/29/24 13:10
683387004	BRA-BRGWC-35S	Ground Water	08/28/24 11:27	08/29/24 13:10
683387005	BRA-BRGWC-36S	Ground Water	08/28/24 10:08	08/29/24 13:10
683387006	BRA-PZ-52D	Ground Water	08/28/24 13:44	08/29/24 13:10
683387007	BRA-PZ-70I	Ground Water	08/28/24 10:06	08/29/24 13:10
683387008	BRA-APE-FD-05	Ground Water	08/28/24 12:00	08/29/24 13:10
683387009	BRA-APE-FB-08	Water	08/28/24 14:30	08/29/24 13:10
683387010	BRA-APE-EB-09	Water	08/28/24 11:00	08/29/24 13:10
683387011	BRA-APE-EB-10	Water	08/28/24 13:10	08/29/24 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	30-AUG-2024
SW846 7470A Prep	30-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	29-AUG-2024
EPA 300.0	30-AUG-2024
SM 2320B	29-AUG-2024
SM 2540C	04-SEP-2024
SM 4500-S (2-) D	30-AUG-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	03-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683387 GEL Work Order: 683387

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

H Analytical holding time was exceeded

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-17S	Project:	GPCC00101
Sample ID:	683387001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 12:13		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		188	2.66	8.00	mg/L		20	TXT1	08/30/24	0832	2665219	1
Chloride		4.95	0.134	0.400	mg/L		2	TXT1	08/29/24	1812	2665219	2
Fluoride		0.218	0.0660	0.200	mg/L		2					
Nitrate-N		0.248	0.0660	0.200	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1155	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1352	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0502	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0721	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		46.4	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0101	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		26.0	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.22	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00304	0.00150	0.00500	mg/L	1.00	1					
Sodium		23.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		421	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	6

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-17S
Sample ID: 683387001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		62.9	0.725	2.00	mg/L			JW2	08/29/24	1634	2665165	7
Bicarbonate alkalinity (CaCO3)		62.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-33S
Sample ID: 683387002
Matrix: WG
Collect Date: 28-AUG-24 14:22
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.204	0.0660	0.200	mg/L		2	TXT1	08/29/24	1843	2665219	1
Nitrate-N	U	ND	0.0660	0.200	mg/L		2					
Sulfate		1230	26.6	80.0	mg/L		200	TXT1	08/30/24	0936	2665219	2
Chloride		71.7	1.34	4.00	mg/L		20	TXT1	08/30/24	0904	2665219	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1206	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.25	0.0520	0.150	mg/L	1.00	10	PRB	09/08/24	1628	2665210	5
Calcium		369	0.800	2.00	mg/L	1.00	10					
Magnesium		73.2	0.100	0.300	mg/L	1.00	10					
Manganese		5.89	0.0100	0.0500	mg/L	1.00	10					
Sodium		87.6	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1417	2665210	6
Arsenic		0.00577	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0511	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00209	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000807	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.104	0.000300	0.00100	mg/L	1.00	1					
Iron		0.105	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0102	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		20.4	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0238	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1880	23.8	100	mg/L			KLP1	09/04/24	1045	2666217	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	8

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-33S
Sample ID: 683387002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		2.70	0.725	2.00	mg/L			JW2	08/29/24	1635	2665165	9
Bicarbonate alkalinity (CaCO3)		2.70	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-34S
Sample ID: 683387003
Matrix: WG
Collect Date: 28-AUG-24 12:43
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.110	0.0330	0.100	mg/L		1	TXT1	08/29/24	1915	2665219	1
Nitrate-N	J	0.0378	0.0330	0.100	mg/L		1					
Sulfate		308	6.65	20.0	mg/L		50	TXT1	08/30/24	1039	2665219	2
Chloride		15.5	0.268	0.800	mg/L		4	TXT1	08/30/24	1008	2665219	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1208	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.88	0.104	0.300	mg/L	1.00	20	PRB	09/08/24	1631	2665210	5
Calcium		95.9	1.60	4.00	mg/L	1.00	20					
Manganese		3.71	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1421	2665210	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0281	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000205	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00494	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.89	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		562	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	8

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-34S
Sample ID: 683387003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.8	0.725	2.00	mg/L			JW2	08/29/24	1636	2665165	9
Bicarbonate alkalinity (CaCO3)		32.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-35S	Project:	GPCC00101
Sample ID:	683387004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 11:27		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N	HU	ND	0.132	0.400	mg/L		4	TXT1	08/30/24	1603	2665219	1
Sulfate		251	3.33	10.0	mg/L		25	TXT1	08/30/24	1111	2665219	2
Chloride		6.21	0.0670	0.200	mg/L		1	TXT1	08/29/24	1947	2665219	3
Fluoride	J	0.0609	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1209	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.10	0.104	0.300	mg/L	1.00	20	PRB	09/08/24	1635	2665210	5
Calcium		59.5	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1425	2665210	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0267	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00491	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		31.0	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0109	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.77	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		479	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	8

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-35S
Sample ID: 683387004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		51.9	0.725	2.00	mg/L			JW2	08/29/24	1638	2665165	9
Bicarbonate alkalinity (CaCO3)		51.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-36S	Project:	GPCC00101
Sample ID:	683387005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 10:08		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.81	0.0670	0.200	mg/L		1	TXT1	08/29/24	2019	2665219	1
Fluoride	J	0.0861	0.0330	0.100	mg/L		1					
Nitrate-N		0.535	0.0330	0.100	mg/L		1					
Sulfate		201	3.33	10.0	mg/L		25	TXT1	08/30/24	1143	2665219	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1211	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1428	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0247	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		41.0	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00617	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.7	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00218	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.36	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00159	0.00150	0.00500	mg/L	1.00	1					
Sodium		34.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.04	0.0520	0.150	mg/L	1.00	10	PRB	09/08/24	1638	2665210	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		389	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	7

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-36S
Sample ID: 683387005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		20.8	0.725	2.00	mg/L			JW2	08/29/24	1639	2665165	8
Bicarbonate alkalinity (CaCO3)		20.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-52D	Project:	GPCC00101
Sample ID:	683387006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 13:44		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.15	0.0670	0.200	mg/L		1	TXT1	08/29/24	2051	2665219	1
Fluoride		2.04	0.0330	0.100	mg/L		1					
Nitrate-N		0.343	0.0660	0.200	mg/L		2	TXT1	08/30/24	0417	2665219	2
Sulfate		72.9	1.33	4.00	mg/L		10	TXT1	08/30/24	0656	2665219	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1213	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1432	2665210	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0156	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0751	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		44.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000337	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0163	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.6	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00303	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00922	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.72	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		303	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	7

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-52D
Sample ID: 683387006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		172	0.725	2.00	mg/L			JW2	08/29/24	1640	2665165	8
Bicarbonate alkalinity (CaCO3)		172	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-70I
Sample ID: 683387007
Matrix: WG
Collect Date: 28-AUG-24 10:06
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.99	0.0670	0.200	mg/L		1	TXT1	08/29/24	2226	2665219	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N		0.113	0.0330	0.100	mg/L		1					
Sulfate		128	1.33	4.00	mg/L		10	TXT1	08/30/24	1634	2665219	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.00101	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1214	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1501	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0198	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000344	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		31.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000686	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0701	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00382	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.6	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.249	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.93	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00691	0.00150	0.00500	mg/L	1.00	1					
Sodium		18.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.898	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/24	1519	2665210	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		259	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	7

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-70I
Sample ID: 683387007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		17.1	0.725	2.00	mg/L			JW2	08/29/24	1641	2665165	8
Bicarbonate alkalinity (CaCO3)		17.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-FD-05	Project:	GPCC00101
Sample ID:	683387008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 12:00		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		259	2.66	8.00	mg/L		20	TXT1	08/30/24	1842	2665219	1
Chloride		6.21	0.0670	0.200	mg/L		1	TXT1	08/30/24	0106	2665219	2
Fluoride	J	0.0970	0.0330	0.100	mg/L		1					
Nitrate-N	HU	ND	0.132	0.400	mg/L		4	TXT1	08/30/24	1810	2665219	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1216	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1504	2665210	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0262	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000202	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00474	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		30.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00994	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.71	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.00	0.104	0.300	mg/L	1.00	20	PRB	09/08/24	1642	2665210	6
Calcium		56.4	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		499	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	8

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 683387008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		51.4	0.725	2.00	mg/L			JW2	08/29/24	1643	2665165	9
Bicarbonate alkalinity (CaCO3)		51.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-FB-08	Project:	GPCC00101
Sample ID:	683387009	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	28-AUG-24 14:30		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.120	0.0670	0.200	mg/L		1	TXT1	08/30/24	0137	2665219	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1221	2665310	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1508	2665210	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0208	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	5

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 683387009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/24	1644	2665165	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-EB-09	Project:	GPCC00101
Sample ID:	683387010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	28-AUG-24 11:00		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.120	0.0670	0.200	mg/L		1	TXT1	08/30/24	1914	2665219	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	H	0.298	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1223	2665310	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1512	2665210	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00556	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	5

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-EB-09 Project: GPCC00101
Sample ID: 683387010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		6.40	0.725	2.00	mg/L			JW2	08/29/24	1645	2665165	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)		2.80	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-EB-10	Project:	GPCC00101
Sample ID:	683387011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	28-AUG-24 13:10		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.117	0.0670	0.200	mg/L		1	TXT1	08/30/24	0241	2665219	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0376	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1224	2665310	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1515	2665210	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	5

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Certificate of Analysis

Report Date: September 10, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-EB-10 Project: GPCC00101
Sample ID: 683387011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/24	1647	2665165	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 10, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2665219										
QC1205840159 683387006 DUP										
Chloride		4.15		4.14	mg/L	0.256		(0%-20%)	TXT1	08/29/24 21:23
Fluoride		2.04		2.03	mg/L	0.378		(0%-20%)		
Nitrate-N		0.343		0.343	mg/L	0.175	^	(+/-0.200)		08/30/24 04:49
Sulfate		72.9		72.7	mg/L	0.18		(0%-20%)		08/30/24 07:28
QC1205840161 683387007 DUP										
Chloride		4.99		5.01	mg/L	0.332		(0%-20%)		08/29/24 22:58
Fluoride	U	ND	U	ND	mg/L	N/A				
Nitrate-N		0.113		0.127	mg/L	11.2	^	(+/-0.100)		
Sulfate		128		129	mg/L	0.344		(0%-20%)		08/30/24 17:06
QC1205840158 LCS										
Chloride	5.00			4.63	mg/L		92.6	(90%-110%)		08/30/24 03:45
Fluoride	2.50			2.46	mg/L		98.4	(90%-110%)		
Nitrate-N	2.50			2.37	mg/L		94.8	(90%-110%)		
Sulfate	10.0			9.41	mg/L		94.1	(90%-110%)		

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2665219										
QC1205840157 MB										
Chloride			J	0.116	mg/L				TXT1	08/30/24 03:13
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205840160 683387006 PS										
Chloride	5.00	4.15		9.18	mg/L		101	(90%-110%)		08/29/24 21:54
Fluoride	2.50	2.04		4.63	mg/L		104	(90%-110%)		
Nitrate-N	2.50	0.172		2.41	mg/L		89.6*	(90%-110%)		08/30/24 05:21
Sulfate	10.0	7.29		17.2	mg/L		98.6	(90%-110%)		08/30/24 08:00
QC1205840162 683387007 PS										
Chloride	5.00	4.99		10.2	mg/L		104	(90%-110%)		08/30/24 00:34
Fluoride	2.50 U	ND		2.58	mg/L		103	(90%-110%)		
Nitrate-N	2.50	0.113		2.38	mg/L		90.5	(90%-110%)		
Sulfate	10.0	12.8		23.2	mg/L		103	(90%-110%)		08/30/24 17:38

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
QC1205840131 LCS										
Antimony	0.0500			0.0483	mg/L		96.7	(80%-120%)	PRB	09/08/24 13:41
Arsenic	0.0500			0.0481	mg/L		96.2	(80%-120%)		
Barium	0.0500			0.0496	mg/L		99.3	(80%-120%)		
Beryllium	0.0500			0.0533	mg/L		107	(80%-120%)		
Boron	0.100			0.101	mg/L		101	(80%-120%)		
Cadmium	0.0500			0.0499	mg/L		99.7	(80%-120%)		
Calcium	2.00			2.05	mg/L		103	(80%-120%)		
Chromium	0.0500			0.0484	mg/L		96.8	(80%-120%)		
Cobalt	0.0500			0.0486	mg/L		97.3	(80%-120%)		
Iron	2.00			1.95	mg/L		97.4	(80%-120%)		
Lead	0.0500			0.0495	mg/L		99	(80%-120%)		
Lithium	0.0500			0.0510	mg/L		102	(80%-120%)		
Magnesium	2.00			1.97	mg/L		98.5	(80%-120%)		
Manganese	0.0500			0.0488	mg/L		97.6	(80%-120%)		

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Molybdenum	0.0500			0.0527	mg/L		105	(80%-120%)	PRB	09/08/24 13:41
Potassium	2.00			1.95	mg/L		97.6	(80%-120%)		
Selenium	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Sodium	2.00			1.94	mg/L		96.9	(80%-120%)		
Thallium	0.0500			0.0451	mg/L		90.1	(80%-120%)		
QC1205840130 MB										
Antimony			U	ND	mg/L					09/08/24 13:37
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Iron			U	ND	mg/L				PRB	09/08/24 13:37
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205840132 683387001 MS										
Antimony	0.0500	U	ND	0.0503	mg/L		100	(75%-125%)		09/08/24 13:56
Arsenic	0.0500	U	ND	0.0501	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0502	0.102	mg/L		103	(75%-125%)		
Beryllium	0.0500	U	ND	0.0538	mg/L		108	(75%-125%)		

QC Summary

Workorder: **683387**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2665210												
Boron	0.100		0.0721		0.180	mg/L		108	(75%-125%)	PRB	09/08/24	13:56
Cadmium	0.0500	U	ND		0.0494	mg/L		98.7	(75%-125%)			
Calcium	2.00		46.4		50.5	mg/L		N/A	(75%-125%)			
Chromium	0.0500		0.0101		0.0592	mg/L		98.1	(75%-125%)			
Cobalt	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)			
Iron	2.00	U	ND		1.98	mg/L		98	(75%-125%)			
Lead	0.0500	U	ND		0.0490	mg/L		98.1	(75%-125%)			
Lithium	0.0500	U	ND		0.0529	mg/L		103	(75%-125%)			
Magnesium	2.00		26.0		28.7	mg/L		N/A	(75%-125%)			
Manganese	0.0500	U	ND		0.0497	mg/L		98.8	(75%-125%)			
Molybdenum	0.0500	U	ND		0.0522	mg/L		104	(75%-125%)			
Potassium	2.00		1.22		3.25	mg/L		101	(75%-125%)			
Selenium	0.0500	J	0.00304		0.0542	mg/L		102	(75%-125%)			
Sodium	2.00		23.4		26.4	mg/L		N/A	(75%-125%)			

QC Summary

Workorder: **683387**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665210											
Thallium	0.0500	U	ND		0.0450	mg/L		89.8	(75%-125%)	PRB	09/08/24 13:56
QC1205840133 683387001 MSD											
Antimony	0.0500	U	ND		0.0488	mg/L	3.08	97.3	(0%-20%)		09/08/24 13:59
Arsenic	0.0500	U	ND		0.0480	mg/L	4.26	95	(0%-20%)		
Barium	0.0500		0.0502		0.0974	mg/L	4.41	94.3	(0%-20%)		
Beryllium	0.0500	U	ND		0.0527	mg/L	2.06	105	(0%-20%)		
Boron	0.100		0.0721		0.172	mg/L	4.57	100	(0%-20%)		
Cadmium	0.0500	U	ND		0.0473	mg/L	4.2	94.7	(0%-20%)		
Calcium	2.00		46.4		48.0	mg/L	5.08	N/A	(0%-20%)		
Chromium	0.0500		0.0101		0.0573	mg/L	3.27	94.3	(0%-20%)		
Cobalt	0.0500	U	ND		0.0479	mg/L	1.75	95.7	(0%-20%)		
Iron	2.00	U	ND		1.95	mg/L	1.54	96.5	(0%-20%)		
Lead	0.0500	U	ND		0.0475	mg/L	3.08	95.1	(0%-20%)		
Lithium	0.0500	U	ND		0.0509	mg/L	3.94	99.4	(0%-20%)		
Magnesium	2.00		26.0		27.4	mg/L	4.43	N/A	(0%-20%)		

QC Summary

Workorder: **683387**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2665210												
Manganese	0.0500	U	ND		0.0485	mg/L	2.41	96.4	(0%-20%)	PRB	09/08/24	13:59
Molybdenum	0.0500	U	ND		0.0507	mg/L	2.92	101	(0%-20%)			
Potassium	2.00		1.22		3.13	mg/L	3.65	95.6	(0%-20%)			
Selenium	0.0500	J	0.00304		0.0516	mg/L	4.88	97.1	(0%-20%)			
Sodium	2.00		23.4		24.8	mg/L	6.05	N/A	(0%-20%)			
Thallium	0.0500	U	ND		0.0438	mg/L	2.58	87.5	(0%-20%)			
QC1205840134 683387001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24	14:07
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			50.2		10.0	ug/L	.157		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			72.1	J	13.8	ug/L	4.32		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Calcium			46400		9270	ug/L	.154		(0%-20%)			
Chromium			10.1	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/08/24 14:07
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		26000		5170	ug/L	.621		(0%-20%)		
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		1220	J	246	ug/L	.831		(0%-20%)		
Selenium	J	3.04	U	ND	ug/L	N/A		(0%-20%)		
Sodium		23400		4590	ug/L	1.92		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2665310										
QC1205840305 683387001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/03/24 11:56
QC1205840304 LCS										
Mercury	0.00200			0.00202	mg/L		101	(80%-120%)		09/03/24 11:53

QC Summary

Workorder: 683387

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2665310										
QC1205840303 MB										
Mercury			U	ND	mg/L				JP2	09/03/24 11:51
QC1205840306 683387001 MS										
Mercury	0.00200	U	ND	0.00194	mg/L		96.8	(75%-125%)		09/03/24 12:01
QC1205840307 683387001 SDILT										
Mercury		U	ND	U ND	ug/L	N/A		(0%-10%)		09/03/24 12:03
Solids Analysis										
Batch 2666217										
QC1205842587 683390004 DUP										
Total Dissolved Solids		310		314	mg/L	1.28		(0%-5%)	KLP1	09/04/24 10:45
QC1205842586 LCS										
Total Dissolved Solids	300			291	mg/L		97	(95%-105%)		09/04/24 10:45
QC1205842585 MB										
Total Dissolved Solids			U	ND	mg/L					09/04/24 10:45
Spectrometric Analysis										
Batch 2665386										
QC1205840474 LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	JW2	08/30/24 10:32
QC1205840473 MB										
Total Sulfide			U	ND	mg/L					08/30/24 10:32
QC1205840475 683164001 PS										
Total Sulfide	0.400	U	ND	0.399	mg/L		99.6	(75%-125%)		08/30/24 10:32
QC1205840476 683164001 PSD										
Total Sulfide	0.400	U	ND	0.388	mg/L	2.81	96.9	(0%-15%)		08/30/24 10:32

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2665165										
QC1205839997 LCS										
Alkalinity, Total as CaCO3	50.0			50.5	mg/L		101	(90%-110%)	JW2	08/29/24 16:29
QC1205839998 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)		08/29/24 16:31
QC1205839999 LCSD										
Alkalinity, Total as CaCO3	50.0			50.9	mg/L	0.789	102	(0%-20%)		08/29/24 16:30
QC1205840000 LCSD										
Alkalinity, Total as CaCO3	15.0			14.7	mg/L	2.02	98	(0%-20%)		08/29/24 16:32

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
***** Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665210

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665209

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205840130	Method Blank (MB)**ICP-MS**
1205840131	Laboratory Control Sample (LCS)
1205840134	683387001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205840132	683387001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205840133	683387001(BRA-BRGWC-17SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683387002 (BRA-BRGWC-33S), 683387003

(BRA-BRGWC-34S), 683387004 (BRA-BRGWC-35S), 683387005 (BRA-BRGWC-36S), 683387007 (BRA-PZ-70I) and 683387008 (BRA-APE-FD-05) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683387					
	002	**003**	**004**	**005**	**007**	**008**
Boron	10X	20X	20X	10X	5X	20X
Calcium	10X	20X	20X	1X	1X	20X
Magnesium	10X	1X	1X	1X	1X	1X
Manganese	10X	20X	1X	1X	1X	1X
Sodium	10X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665310

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665309

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205840303	Method Blank (MB)**CVAA**
1205840304	Laboratory Control Sample (LCS)
1205840307	683387001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205840305	683387001(BRA-BRGWC-17SD) Sample Duplicate (DUP)
1205840306	683387001(BRA-BRGWC-17SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2665219

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205840157	Method Blank (MB)
1205840158	Laboratory Control Sample (LCS)
1205840159	683387006(BRA-PZ-52D) Sample Duplicate (DUP)
1205840160	683387006(BRA-PZ-52D) Post Spike (PS)
1205840161	683387007(BRA-PZ-70I) Sample Duplicate (DUP)
1205840162	683387007(BRA-PZ-70I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrate-N	1205840160 (BRA-PZ-52DPS)	89.6* (90%-110%)

Technical Information

Holding Times
Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of samples. The data is qualified.

Sample	Analyte	Value

683387004 (BRA-BRGWC-35S)	Nitrate-N	Received 29-AUG-24, within holding, analyzed 30-AUG-24, out of holding 30-AUG-24
683387008 (BRA-APE-FD-05)	Nitrate-N	Received 29-AUG-24, within holding, analyzed 30-AUG-24, out of holding 30-AUG-24
683387010 (BRA-APE-EB-09)	Nitrate-N	Received 29-AUG-24, within holding, analyzed 30-AUG-24, out of holding 30-AUG-24

Sample Dilutions
The following samples 1205840159 (BRA-PZ-52DDUP), 1205840160 (BRA-PZ-52DPS), 1205840161 (BRA-PZ-70IDUP), 1205840162 (BRA-PZ-70IPS), 683387001 (BRA-BRGWC-17S), 683387002 (BRA-BRGWC-33S), 683387003 (BRA-BRGWC-34S), 683387004 (BRA-BRGWC-35S), 683387005 (BRA-BRGWC-36S), 683387006 (BRA-PZ-52D), 683387007 (BRA-PZ-70I) and 683387008 (BRA-APE-FD-05) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205840159 (BRA-PZ-52DDUP), 1205840160 (BRA-PZ-52DPS), 683387004 (BRA-BRGWC-35S), 683387006 (BRA-PZ-52D) and 683387008 (BRA-APE-FD-05) in this sample group were diluted due to matrix interference. Samples 683387001 (BRA-BRGWC-17S) and 683387002 (BRA-BRGWC-33S) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683387							
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**
Chloride	2X	20X	4X	1X	1X	1X	1X	1X
Fluoride	2X	2X	1X	1X	1X	1X	1X	1X
Nitrate-N	2X	2X	1X	4X	1X	2X	1X	4X
Sulfate	20X	200X	50X	25X	25X	10X	10X	20X

Sample Re-analysis
Sample 683387010 (BRA-APE-EB-09) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations
Samples 1205840159 (BRA-PZ-52DDUP), 1205840161 (BRA-PZ-70IDUP), 683387001 (BRA-BRGWC-17S), 683387002 (BRA-BRGWC-33S), 683387004 (BRA-BRGWC-35S), 683387005 (BRA-BRGWC-36S), 683387006 (BRA-PZ-52D) and 683387008 (BRA-APE-FD-05) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666217

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S

683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205842585	Method Blank (MB)
1205842586	Laboratory Control Sample (LCS)
1205842587	683390004(BRA-BRGWC-52I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 683387002 (BRA-BRGWC-33S).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2665386

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205840473	Method Blank (MB)
1205840474	Laboratory Control Sample (LCS)
1205840475	683164001(NonSDG) Post Spike (PS)
1205840476	683164001(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205840475 (Non SDG 683164001PS) and 1205840476 (Non SDG 683164001PSD) in this sample group were diluted due to limited sample quantity. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2665165

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205839997	Laboratory Control Sample (LCS)
1205839998	Laboratory Control Sample (LCS)
1205839999	Laboratory Control Sample Duplicate (LCSD)
1205840000	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

683387 / 683389

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble, D. Johnson ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- BRGWC-175	08/28/24	1213	G	N	WG	N	N	8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC
BRA- BRGWC-335	08/28/24	1422	G	N	WG	N	N	8	✓	✓	✓	✓	✓		Task_Code: BRA-CCR-ASSMT-2024S2
BRA- BRGWC-345	08/28/24	1243	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- BRGWC-355	08/28/24	1127	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- BRGWC-365	08/28/24	1008	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- PZ-52D	08/28/24	1344	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- PZ-70I	08/28/24	1006	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-FD-05	08/28/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-FB-08	08/28/24	1430	G	N	WQ	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-EB-09	08/28/24	1100	G	N	WQ	N	N	8	✓	✓	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	8-29-24	0822		8/29/24	0822
2					8/29/24	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 0 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg= Mercury, Se= Selenium, Ag= Silver, MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste (F,K,P and U-listed wastes.) Waste code(s):

Other
OT= Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gosle D. Johnson ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- AFE-EB-10	08/28/24	1310	G	N	WG	N	N	8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S2
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Gosle	8-29-24	0822		8/29/24	0822
2				Cwilmarth	8/29/24	1310
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) *Sample Analysis Requested:* Analytical method requested (i.e. ***8260B***, ***6010B/7470A***) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683390/683391 AP
683387/683389

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 0° 3 - 0° 5 - 8° 2 - 0° 4 - 0° 6 - 1°

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with COC
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 10 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 03, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683468

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 683468 in the left-hand footer of the data report. Package revision 01 to include results for Fluoride.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683468001	BRA-PZ-50D	Ground Water	08/29/24 10:00	08/30/24 08:30
683468002	BRA-PZ-64I	Ground Water	08/29/24 11:35	08/30/24 08:30
683468003	BRA-PZ-61I	Ground Water	08/29/24 12:05	08/30/24 08:30
683468004	BRA-BRGWC-50	Ground Water	08/29/24 13:30	08/30/24 08:30
683468005	BRA-PZ-51D	Ground Water	08/29/24 13:40	08/30/24 08:30
683468006	BRA-APBCD-FB-03	Water	08/29/24 15:00	08/30/24 08:30
683468007	BRA-APBCD-FD-03	Ground Water	08/29/24 12:00	08/30/24 08:30
683468008	BRA-PZ-51I	Ground Water	08/29/24 14:20	08/30/24 08:30
683468009	BRA-APBCD-EB-06	Water	08/29/24 14:45	08/30/24 08:30
683468010	BRA-PZ-60I	Ground Water	08/29/24 12:44	08/30/24 08:30
683468011	BRA-PZ-58I	Ground Water	08/29/24 15:15	08/30/24 08:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	03-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	30-AUG-2024
EPA 300.0	31-AUG-2024
SM 2320B	30-AUG-2024
SM 2540C	04-SEP-2024
SM 4500-S (2-) D	03-SEP-2024
SW846 3005A/6020B	09-SEP-2024
SW846 3005A/6020B	10-SEP-2024
SW846 3005A/6020B	11-SEP-2024
SW846 7470A	04-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683468 GEL Work Order: 683468

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

H Analytical holding time was exceeded

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-50D
Sample ID: 683468001
Matrix: WG
Collect Date: 29-AUG-24 10:00
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.165	0.0330	0.100	mg/L		1	CH6	08/30/24	1244	2665531	1
Chloride		11.2	0.335	1.00	mg/L		5	CH6	08/31/24	0034	2665531	2
Nitrate-N		0.818	0.165	0.500	mg/L		5					
Sulfate		806	13.3	40.0	mg/L		100	CH6	08/31/24	0339	2665531	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1152	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1608	2665671	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0260	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.111	0.000300	0.00100	mg/L	1.00	1					
Iron		2.01	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0279	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000466	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		45.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.298	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1620	2665671	6
Calcium		197	0.400	1.00	mg/L	1.00	5					
Magnesium		76.6	0.0500	0.150	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	1946	2665671	7
Manganese		9.82	0.0500	0.250	mg/L	1.00	50	BAJ	09/11/24	1609	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1490	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-50D
Sample ID: 683468001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		56.9	0.725	2.00	mg/L			JW2	08/30/24	1427	2665536	11
Bicarbonate alkalinity (CaCO3)		56.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-64I
Sample ID: 683468002
Matrix: WG
Collect Date: 29-AUG-24 11:35
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		33.8	0.335	1.00	mg/L		5	CH6	08/30/24	1315	2665531	1
Fluoride	U	ND	0.165	0.500	mg/L		5					
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Sulfate		2300	26.6	80.0	mg/L		200	CH6	08/31/24	0410	2665531	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1203	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/10/24	1639	2665671	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Cadmium	J	0.00411	0.00150	0.00500	mg/L	1.00	5					
Magnesium		222	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	J	0.00888	0.00750	0.0250	mg/L	1.00	5					
Sodium		65.5	0.400	1.25	mg/L	1.00	5					
Beryllium		0.00300	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2020	2665671	5
Barium		0.0119	0.000670	0.00400	mg/L	1.00	1	BAJ	09/10/24	1636	2665671	6
Boron	J	0.0142	0.00520	0.0150	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		1.81	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0134	0.00300	0.0100	mg/L	1.00	1					
Potassium		12.4	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		333	4.00	10.0	mg/L	1.00	50	BAJ	09/10/24	1641	2665671	7
Cobalt		9.65	0.0150	0.0500	mg/L	1.00	50					
Manganese		348	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1615	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3830	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-64I
Sample ID: 683468002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		14.7	0.725	2.00	mg/L			JW2	08/30/24	1428	2665536	11
Bicarbonate alkalinity (CaCO3)		14.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-61I
Sample ID: 683468003
Matrix: WG
Collect Date: 29-AUG-24 12:05
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1460	13.3	40.0	mg/L		100	CH6	08/31/24	0441	2665531	1
Chloride		15.3	0.134	0.400	mg/L		2	CH6	08/30/24	1345	2665531	2
Fluoride	J	0.111	0.0660	0.200	mg/L		2					
Nitrate-N	U	ND	0.132	0.400	mg/L		4	CH6	08/31/24	0105	2665531	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1205	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium		0.00173	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2025	2665671	5
Manganese		111	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1616	2665671	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1646	2665671	7
Barium		0.0103	0.000670	0.00400	mg/L	1.00	1					
Cadmium	J	0.000413	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.743	0.000300	0.00100	mg/L	1.00	1					
Iron		0.233	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0108	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.33	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	BAJ	09/10/24	1648	2665671	8
Boron		0.348	0.0260	0.0750	mg/L	1.00	5					
Calcium		216	0.400	1.00	mg/L	1.00	5					
Magnesium		165	0.0500	0.150	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		59.8	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2110	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-61I
Sample ID: 683468003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		12.7	0.725	2.00	mg/L			JW2	08/30/24	1430	2665536	11
Bicarbonate alkalinity (CaCO3)		12.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-50
Sample ID: 683468004
Matrix: WG
Collect Date: 29-AUG-24 13:30
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.442	0.0330	0.100	mg/L		1	CH6	08/30/24	1416	2665531	1
Sulfate		1390	13.3	40.0	mg/L		100	CH6	08/31/24	0511	2665531	2
Chloride		15.1	0.134	0.400	mg/L		2	CH6	08/31/24	0135	2665531	3
Nitrate-N	U	ND	0.0660	0.200	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1206	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.393	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1700	2665671	5
Calcium		232	0.400	1.00	mg/L	1.00	5					
Cobalt		1.36	0.00150	0.00500	mg/L	1.00	5					
Magnesium		156	0.0500	0.150	mg/L	1.00	5					
Sodium		50.7	0.400	1.25	mg/L	1.00	5					
Manganese		79.4	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1617	2665671	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1657	2665671	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0156	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00742	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.230	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0433	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00868	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2031	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2140	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 683468004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.9	0.725	2.00	mg/L			JW2	08/30/24	1431	2665536	11
Bicarbonate alkalinity (CaCO3)		10.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-51D
Sample ID: 683468005
Matrix: WG
Collect Date: 29-AUG-24 13:40
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N	U	ND	0.0660	0.200	mg/L		2	CH6	08/31/24	1308	2665531	1
Sulfate		361	6.65	20.0	mg/L		50	CH6	08/31/24	0644	2665531	2
Chloride		17.9	0.268	0.800	mg/L		4	CH6	08/31/24	0206	2665531	3
Fluoride		0.326	0.0330	0.100	mg/L		1	CH6	08/30/24	1447	2665531	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1208	2665644	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1704	2665671	6
Arsenic	J	0.00356	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0471	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0366	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000506	0.000300	0.00100	mg/L	1.00	1					
Iron		3.37	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00392	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00192	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		127	0.400	1.00	mg/L	1.00	5	BAJ	09/10/24	1707	2665671	7
Sodium		51.4	0.400	1.25	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2037	2665671	8
Manganese		1.41	0.00500	0.0250	mg/L	1.00	5	BAJ	09/11/24	1618	2665671	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		800	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	11

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-51D
Sample ID: 683468005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		129	0.725	2.00	mg/L			JW2	08/30/24	1433	2665536	12
Bicarbonate alkalinity (CaCO3)		129	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-03
Sample ID: 683468006
Matrix: WQ
Collect Date: 29-AUG-24 15:00
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	1518	2665531	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1210	2665644	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	1932	2665671	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1547	2665671	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1606	2665671	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	7

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 683468006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1436	2665536	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-03
Sample ID: 683468007
Matrix: WG
Collect Date: 29-AUG-24 12:00
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		15.2	0.134	0.400	mg/L		2	CH6	08/30/24	1549	2665531	1
Fluoride		0.472	0.0660	0.200	mg/L		2					
Sulfate		1380	13.3	40.0	mg/L		100	CH6	08/31/24	0715	2665531	2
Nitrate-N	U	ND	0.132	0.400	mg/L		4	CH6	08/31/24	0237	2665531	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1211	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		80.2	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1619	2665671	5
Boron		0.399	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1712	2665671	6
Calcium		234	0.400	1.00	mg/L	1.00	5					
Cobalt		1.36	0.00150	0.00500	mg/L	1.00	5					
Magnesium		157	0.0500	0.150	mg/L	1.00	5					
Sodium		50.4	0.400	1.25	mg/L	1.00	5					
Beryllium		0.00878	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2048	2665671	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1709	2665671	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0158	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00732	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.233	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0439	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1930	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 683468007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.2	0.725	2.00	mg/L			JW2	08/30/24	1437	2665536	11
Bicarbonate alkalinity (CaCO3)		10.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-51I
Sample ID: 683468008
Matrix: WG
Collect Date: 29-AUG-24 14:20
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1290	13.3	40.0	mg/L		100	CH6	08/31/24	0746	2665531	1
Fluoride	J	0.0805	0.0330	0.100	mg/L		1	CH6	08/30/24	1620	2665531	2
Chloride		9.77	0.134	0.400	mg/L		2	CH6	08/31/24	0308	2665531	3
Nitrate-N	U	ND	0.0660	0.200	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1216	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2054	2665671	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1721	2665671	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0135	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00181	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0246	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0681	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0260	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000288	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		46.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.443	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1723	2665671	7
Calcium		231	0.400	1.00	mg/L	1.00	5					
Magnesium		146	0.0500	0.150	mg/L	1.00	5					
Manganese		52.0	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1620	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2010	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-51I
Sample ID: 683468008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		23.8	0.725	2.00	mg/L			JW2	08/30/24	1438	2665536	11
Bicarbonate alkalinity (CaCO3)		23.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 683468009
Matrix: WQ
Collect Date: 29-AUG-24 14:45
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	1651	2665531	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1218	2665644	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1549	2665671	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0112	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	1934	2665671	4
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1607	2665671	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	7

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 683468009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1439	2665536	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-60I
Sample ID: 683468010
Matrix: WG
Collect Date: 29-AUG-24 12:44
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.30	0.0660	0.200	mg/L		2	CH6	08/30/24	1823	2665531	1
Sulfate		1980	26.6	80.0	mg/L		200	CH6	08/31/24	1817	2665531	2
Chloride		27.1	0.335	1.00	mg/L		5	CH6	08/31/24	1238	2665531	3
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1220	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Barium		0.0203	0.000670	0.00400	mg/L	1.00	1	BAJ	09/10/24	1728	2665671	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		2.31	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.103	0.00300	0.0100	mg/L	1.00	1					
Potassium		13.1	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		322	2.00	5.00	mg/L	1.00	25	BAJ	09/10/24	1733	2665671	6
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/10/24	1730	2665671	7
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Boron		0.318	0.0260	0.0750	mg/L	1.00	5					
Cadmium		0.0156	0.00150	0.00500	mg/L	1.00	5					
Cobalt		3.66	0.00150	0.00500	mg/L	1.00	5					
Magnesium		202	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		64.4	0.400	1.25	mg/L	1.00	5					
Beryllium		0.0671	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2059	2665671	8
Manganese		191	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1623	2665671	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3270	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	11

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-60I
Sample ID: 683468010
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1441	2665536	12
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-58I
Sample ID: 683468011
Matrix: WG
Collect Date: 29-AUG-24 15:15
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		13.6	0.134	0.400	mg/L		2	CH6	08/30/24	1450	2665497	1
Fluoride		1.36	0.0660	0.200	mg/L		2					
Sulfate		1200	13.3	40.0	mg/L		100	CH6	08/31/24	0241	2665497	2
Nitrate-N		1.52	0.132	0.400	mg/L		4	CH6	08/30/24	1858	2665497	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1221	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		45.5	0.100	0.500	mg/L	1.00	100	BAJ	09/11/24	1624	2665671	5
Boron		0.444	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1744	2665671	6
Calcium		209	0.400	1.00	mg/L	1.00	5					
Iron		63.0	0.165	0.500	mg/L	1.00	5					
Magnesium		109	0.0500	0.150	mg/L	1.00	5					
Beryllium		0.0393	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2105	2665671	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1742	2665671	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0164	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00519	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.622	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000884	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0602	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.99	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00576	0.00150	0.00500	mg/L	1.00	1					
Sodium		39.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-58I
Sample ID: 683468011
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1442	2665536	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: October 3, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2665497										
QC1205840892 683471005 DUP										
Chloride		18.1		18.2	mg/L	0.0881 ^		(+/-4.00)	CH6	08/31/24 06:17
Fluoride		0.126		0.127	mg/L	0.395 ^		(+/-0.100)		08/31/24 00:37
Nitrate-N	U	ND	U	ND	mg/L	N/A				
Sulfate		280		280	mg/L	0.106		(0%-20%)		08/31/24 06:17
QC1205840891 LCS										
Chloride	5.00			4.68	mg/L		93.6	(90%-110%)		08/31/24 00:06
Fluoride	2.50			2.33	mg/L		93.4	(90%-110%)		
Nitrate-N	2.50			2.37	mg/L		94.8	(90%-110%)		
Sulfate	10.0			9.40	mg/L		94	(90%-110%)		
QC1205840890 MB										
Chloride			U	ND	mg/L					08/30/24 22:34
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2665497											
QC1205840893 683471005 PS											
Chloride	5.00		0.907		5.66	mg/L		95.1	(90%-110%)	CH6	08/31/24 06:48
Fluoride	2.50		0.126		2.50	mg/L		94.9	(90%-110%)		08/31/24 01:08
Nitrate-N	2.50	U	ND		2.39	mg/L		95.5	(90%-110%)		
Sulfate	10.0		14.0		24.3	mg/L		103	(90%-110%)		08/31/24 06:48
Batch 2665531											
QC1205840963 683468010 DUP											
Chloride			27.1		27.1	mg/L	0.048		(0%-20%)	CH6	08/31/24 13:39
Fluoride			1.30		1.31	mg/L	0.997		(0%-20%)		08/30/24 18:54
Nitrate-N		U	ND	HU	ND	mg/L	N/A				08/31/24 13:39
Sulfate			1980		1990	mg/L	0.285		(0%-20%)		08/31/24 18:48
QC1205840962 LCS											
Chloride	5.00				4.70	mg/L		94.1	(90%-110%)		08/30/24 23:01
Fluoride	2.50				2.36	mg/L		94.3	(90%-110%)		
Nitrate-N	2.50				2.37	mg/L		95	(90%-110%)		
Sulfate	10.0				9.54	mg/L		95.4	(90%-110%)		
QC1205840961 MB											
Chloride				U	ND	mg/L					08/30/24 22:30

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2665531											
Fluoride				U	ND	mg/L				CH6	08/30/24 22:30
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205840964 683468010 PS											
Chloride	5.00		5.42		10.7	mg/L		105	(90%-110%)		08/31/24 14:10
Fluoride	2.50		0.649		3.14	mg/L		99.6	(90%-110%)		08/30/24 19:25
Nitrate-N	2.50	U	ND	H	2.30	mg/L		91.8	(90%-110%)		08/31/24 14:10
Sulfate	10.0		9.92		19.7	mg/L		97.4	(90%-110%)		08/31/24 19:19
Metals Analysis - ICPMS											
Batch 2665671											
QC1205841255 LCS											
Antimony	0.0500				0.0491	mg/L		98.3	(80%-120%)	BAJ	09/10/24 15:44
Arsenic	0.0500				0.0527	mg/L		105	(80%-120%)		
Barium	0.0500				0.0488	mg/L		97.5	(80%-120%)		
Beryllium	0.0500				0.0600	mg/L		120	(80%-120%)		09/09/24 19:29
Boron	0.100				0.113	mg/L		113	(80%-120%)		09/10/24 15:44
Cadmium	0.0500				0.0505	mg/L		101	(80%-120%)		

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Calcium	2.00			2.10	mg/L		105	(80%-120%)	BAJ	09/10/24 15:44
Chromium	0.0500			0.0511	mg/L		102	(80%-120%)		
Cobalt	0.0500			0.0508	mg/L		102	(80%-120%)		
Iron	2.00			2.01	mg/L		101	(80%-120%)		
Lead	0.0500			0.0516	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0593	mg/L		119	(80%-120%)		
Magnesium	2.00			2.25	mg/L		113	(80%-120%)		
Manganese	0.0500			0.0514	mg/L		103	(80%-120%)		09/11/24 16:05
Molybdenum	0.0500			0.0509	mg/L		102	(80%-120%)		09/10/24 15:44
Potassium	2.00			2.14	mg/L		107	(80%-120%)		
Selenium	0.0500			0.0509	mg/L		102	(80%-120%)		
Sodium	2.00			2.29	mg/L		115	(80%-120%)		
Thallium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
QC1205841254 MB										
Antimony			U	ND	mg/L					09/10/24 15:42

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Arsenic			U	ND	mg/L				BAJ	09/10/24 15:42
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					09/09/24 19:26
Boron			U	ND	mg/L					09/10/24 15:42
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					09/11/24 16:04
Molybdenum			U	ND	mg/L					09/10/24 15:42

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Potassium				U	ND	mg/L				BAJ	09/10/24 15:42
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205841256 683468001 MS											
Antimony	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		09/10/24 16:10
Arsenic	0.0500	U	ND		0.0552	mg/L		107	(75%-125%)		
Barium	0.0500		0.0260		0.0752	mg/L		98.5	(75%-125%)		
Beryllium	0.0500	U	ND		0.0533	mg/L		106	(75%-125%)		09/09/24 19:49
Boron	0.100		0.298		0.395	mg/L		97.7	(75%-125%)		09/10/24 16:22
Cadmium	0.0500	U	ND		0.0493	mg/L		98.5	(75%-125%)		09/10/24 16:10
Calcium	2.00		197		203	mg/L		N/A	(75%-125%)		09/10/24 16:22
Chromium	0.0500	U	ND		0.0491	mg/L		98.2	(75%-125%)		09/10/24 16:10
Cobalt	0.0500		0.111		0.161	mg/L		99.9	(75%-125%)		
Iron	2.00		2.01		4.01	mg/L		99.6	(75%-125%)		

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Lead	0.0500	U	ND		0.0462	mg/L		92.3	(75%-125%)	BAJ	09/10/24 16:10
Lithium	0.0500		0.0279		0.0826	mg/L		109	(75%-125%)		
Magnesium	2.00		76.6		79.0	mg/L		N/A	(75%-125%)		09/10/24 16:22
Manganese	0.0500		9.82		10.2	mg/L		N/A	(75%-125%)		09/11/24 16:10
Molybdenum	0.0500	J	0.000466		0.0536	mg/L		106	(75%-125%)		09/10/24 16:10
Potassium	2.00		11.2		13.3	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0571	mg/L		114	(75%-125%)		
Sodium	2.00		45.8		48.7	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
QC1205841257 683468001 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	0.666	99.8	(0%-20%)		09/10/24 16:13
Arsenic	0.0500	U	ND		0.0544	mg/L	1.45	105	(0%-20%)		
Barium	0.0500		0.0260		0.0722	mg/L	4.18	92.4	(0%-20%)		
Beryllium	0.0500	U	ND		0.0528	mg/L	1.04	105	(0%-20%)		09/09/24 19:51
Boron	0.100		0.298		0.388	mg/L	1.93	90.1	(0%-20%)		09/10/24 16:25

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Cadmium	0.0500	U	ND		0.0487	mg/L	1.27	97.3	(0%-20%)	BAJ	09/10/24 16:13
Calcium	2.00		197		201	mg/L	0.721	N/A	(0%-20%)		09/10/24 16:25
Chromium	0.0500	U	ND		0.0488	mg/L	0.699	97.5	(0%-20%)		09/10/24 16:13
Cobalt	0.0500		0.111		0.160	mg/L	0.857	97.1	(0%-20%)		
Iron	2.00		2.01		3.94	mg/L	1.65	96.3	(0%-20%)		
Lead	0.0500	U	ND		0.0448	mg/L	3.02	89.5	(0%-20%)		
Lithium	0.0500		0.0279		0.0812	mg/L	1.7	107	(0%-20%)		
Magnesium	2.00		76.6		79.2	mg/L	0.15	N/A	(0%-20%)		09/10/24 16:25
Manganese	0.0500		9.82		10.4	mg/L	2.36	N/A	(0%-20%)		09/11/24 16:11
Molybdenum	0.0500	J	0.000466		0.0528	mg/L	1.42	105	(0%-20%)		09/10/24 16:13
Potassium	2.00		11.2		13.1	mg/L	1.53	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0554	mg/L	3.01	111	(0%-20%)		
Sodium	2.00		45.8		47.9	mg/L	1.71	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0443	mg/L	1.74	88.5	(0%-20%)		

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
QC1205841258 683468001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/10/24 16:17
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		26.0		5.69	ug/L	9.47		(0%-20%)		
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/09/24 19:57
Boron		59.5		15.8	ug/L	32.8		(0%-20%)		09/10/24 16:29
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Calcium		39400		8160	ug/L	3.49		(0%-20%)		09/10/24 16:29
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Cobalt		111		24.0	ug/L	8.09		(0%-20%)		
Iron		2010		426	ug/L	5.83		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		27.9	J	5.65	ug/L	1.37		(0%-20%)		
Magnesium		15300		3270	ug/L	6.63		(0%-20%)		09/10/24 16:29
Manganese		196		42.1	ug/L	7.19		(0%-20%)		09/11/24 16:12

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Molybdenum	J	0.466	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/10/24 16:17
Potassium		11200		2360	ug/L	5.45		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		45800		9540	ug/L	4.02		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2665644										
QC1205841207 683468001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/04/24 11:57
QC1205841206 LCS										
Mercury	0.00200			0.00198	mg/L		99.2	(80%-120%)		09/04/24 11:48
QC1205841205 MB										
Mercury			U	ND	mg/L					09/04/24 11:47
QC1205841208 683468001 MS										
Mercury	0.00200	U		ND		0.00170	mg/L	85.1	(75%-125%)	09/04/24 11:58
QC1205841209 683468001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/04/24 12:00
Solids Analysis										
Batch 2666218										
QC1205842591 683468001 DUP										
Total Dissolved Solids		1490		1240	mg/L	18.3 *		(0%-5%)	KLP1	09/04/24 11:05

QC Summary

Workorder: 683468

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2666218										
QC1205842592 683471004 DUP										
Total Dissolved Solids		492		493	mg/L	0.203		(0%-5%)	KLP1	09/04/24 11:05
QC1205842590 LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		09/04/24 11:05
QC1205842589 MB										
Total Dissolved Solids			U	ND	mg/L					09/04/24 11:05
Spectrometric Analysis										
Batch 2666112										
QC1205842332 LCS										
Total Sulfide	0.400			0.405	mg/L		101	(85%-115%)	JW2	09/03/24 10:08
QC1205842331 MB										
Total Sulfide			U	ND	mg/L					09/03/24 10:08
QC1205842333 683468001 PS										
Total Sulfide	0.400	U	ND	0.402	mg/L		100	(75%-125%)		09/03/24 10:08
QC1205842335 683471004 PS										
Total Sulfide	0.400	U	ND	0.388	mg/L		97	(75%-125%)		09/03/24 10:08
QC1205842334 683468001 PSD										
Total Sulfide	0.400	U	ND	0.392	mg/L	2.47	98	(0%-15%)		09/03/24 10:08
QC1205842336 683471004 PSD										
Total Sulfide	0.400	U	ND	0.377	mg/L	2.89	94.3	(0%-15%)		09/03/24 10:08
Titration and Ion Analysis										
Batch 2665536										
QC1205840987 LCS										
Alkalinity, Total as CaCO3	50.0			50.6	mg/L		101	(90%-110%)	JW2	08/30/24 14:22

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2665536											
QC1205840988 LCS											
Alkalinity, Total as CaCO3	15.0			14.5	mg/L		96.7	(90%-110%)	JW2	08/30/24	14:24
QC1205840989 LCSD											
Alkalinity, Total as CaCO3	50.0			50.3	mg/L	0.595	101	(0%-20%)		08/30/24	14:23
QC1205840990 LCSD											
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	4.71	101	(0%-20%)		08/30/24	14:25

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665671

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665670

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205841254	Method Blank (MB)**ICP-MS**
1205841255	Laboratory Control Sample (LCS)
1205841258	683468001(BRA-PZ-50DL) Serial Dilution (SD)
1205841256	683468001(BRA-PZ-50DS) Matrix Spike (MS)
1205841257	683468001(BRA-PZ-50DSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683468001 (BRA-PZ-50D), 683468002

(BRA-PZ-64I), 683468003 (BRA-PZ-61I), 683468004 (BRA-BRGWC-50), 683468005 (BRA-PZ-51D), 683468007 (BRA-APBCD-FD-03), 683468008 (BRA-PZ-51I), 683468010 (BRA-PZ-60I) and 683468011 (BRA-PZ-58I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 683468002 (BRA-PZ-64I), 683468003 (BRA-PZ-61I) and 683468010 (BRA-PZ-60I) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	683468								
	001	**002**	**003**	**004**	**005**	**007**	**008**	**010**	**011**
Antimony	1X	5X	1X	1X	1X	1X	1X	5X	1X
Arsenic	1X	5X	5X	1X	1X	1X	1X	5X	1X
Boron	5X	1X	5X	5X	1X	5X	5X	5X	5X
Cadmium	1X	5X	1X	1X	1X	1X	1X	5X	1X
Calcium	5X	50X	5X	5X	5X	5X	5X	25X	5X
Cobalt	1X	50X	1X	5X	1X	5X	1X	5X	1X
Iron	1X	1X	1X	1X	1X	1X	1X	1X	5X
Magnesium	5X	5X	5X	5X	1X	5X	5X	5X	5X
Manganese	50X	500X	500X	500X	5X	500X	500X	500X	100X
Molybdenum	1X	5X	1X	1X	1X	1X	1X	5X	1X
Selenium	1X	5X	5X	1X	1X	1X	1X	5X	1X
Sodium	1X	5X	5X	5X	5X	5X	1X	5X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665644

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665643

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205841205	Method Blank (MB)**CVAA**
1205841206	Laboratory Control Sample (LCS)
1205841209	683468001(BRA-PZ-50DL) Serial Dilution (SD)
1205841207	683468001(BRA-PZ-50DD) Sample Duplicate (DUP)
1205841208	683468001(BRA-PZ-50DS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Double potassium permanganate was added to the sample and associated QC to prevent premature reduction of the reagent. 1205841205 (MB) and 1205841206 (LCS).

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2665497

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683468011	BRA-PZ-58I
1205840890	Method Blank (MB)
1205840891	Laboratory Control Sample (LCS)
1205840892	683471005(BRA-PZ-68D) Sample Duplicate (DUP)
1205840893	683471005(BRA-PZ-68D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205840892 (BRA-PZ-68DDUP), 1205840893 (BRA-PZ-68DPS) and 683468011 (BRA-PZ-58I) were diluted because target analyte concentrations exceeded the calibration range. The following sample 683468011 (BRA-PZ-58I) in this sample group was diluted due to matrix interference. Sample 683468011 (BRA-PZ-58I) was diluted to minimize matrix effects on instrument performance. Sample 683468011 (BRA-PZ-58I) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683468 011
Chloride	2X
Fluoride	2X

Nitrate-N	4X
Sulfate	100X

Miscellaneous Information

Manual Integrations
Samples 1205840892 (BRA-PZ-68DDUP) and 1205840893 (BRA-PZ-68DPS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2665531

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
1205840961	Method Blank (MB)
1205840962	Laboratory Control Sample (LCS)
1205840963	683468010(BRA-PZ-60I) Sample Duplicate (DUP)
1205840964	683468010(BRA-PZ-60I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Times
Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of diluted samples. The data is qualified.

Sample	Analyte	Value
1205840963 (BRA-PZ-60IDUP)	Nitrate-N	Received 30-AUG-24, within holding, analyzed 31-AUG-24, out of holding 31-AUG-24
1205840964 (BRA-PZ-60IPS)	Nitrate-N	Received 30-AUG-24, within holding, analyzed 31-AUG-24, out of holding 31-AUG-24

Sample Dilutions
The following samples 1205840963 (BRA-PZ-60IDUP), 1205840964 (BRA-PZ-60IPS), 683468001 (BRA-PZ-50D), 683468002 (BRA-PZ-64I), 683468003 (BRA-PZ-61I), 683468004 (BRA-BRGWC-50), 683468005 (BRA-PZ-51D), 683468007 (BRA-APBCD-FD-03), 683468008 (BRA-PZ-51I) and 683468010 (BRA-PZ-60I) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205840963 (BRA-PZ-60IDUP), 1205840964 (BRA-PZ-60IPS), 683468001 (BRA-PZ-50D), 683468003 (BRA-PZ-61I), 683468004 (BRA-BRGWC-50), 683468005 (BRA-PZ-51D), 683468007 (BRA-APBCD-FD-03), 683468008 (BRA-PZ-51I) and 683468010 (BRA-PZ-60I) in this sample group were diluted due to matrix interference. Samples 683468002 (BRA-PZ-64I) and 683468003 (BRA-PZ-61I) were diluted to minimize matrix effects on instrument performance. Samples 1205840963 (BRA-PZ-60IDUP), 1205840964 (BRA-PZ-60IPS), 683468002 (BRA-PZ-64I), 683468003 (BRA-PZ-61I), 683468007 (BRA-APBCD-FD-03) and 683468010 (BRA-PZ-60I) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683468							
	001	**002**	**003**	**004**	**005**	**007**	**008**	**010**
Chloride	5X	5X	2X	2X	4X	2X	2X	5X
Fluoride	1X	5X	2X	1X	1X	2X	1X	2X
Nitrate-N	5X	5X	4X	2X	2X	4X	2X	5X
Sulfate	100X	200X	100X	100X	50X	100X	100X	200X

Miscellaneous Information

Manual Integrations
Sample 683468002 (BRA-PZ-64I) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666218

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205842589	Method Blank (MB)
1205842590	Laboratory Control Sample (LCS)
1205842591	683468001(BRA-PZ-50D) Sample Duplicate (DUP)
1205842592	683471004(BRA-BRGWC-25I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205842591 (BRA-PZ-50DDUP)	18.3* (0%-5%)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 1205842591 (BRA-PZ-50DDUP), 683468001 (BRA-PZ-50D), 683468002 (BRA-PZ-64I), 683468003 (BRA-PZ-61I), 683468005 (BRA-PZ-51D), 683468007 (BRA-APBCD-FD-03), 683468008 (BRA-PZ-51I), 683468010 (BRA-PZ-60I) and 683468011 (BRA-PZ-58I).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2666112

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205842331	Method Blank (MB)
1205842332	Laboratory Control Sample (LCS)
1205842333	683468001(BRA-PZ-50D) Post Spike (PS)
1205842334	683468001(BRA-PZ-50D) Post Spike Duplicate (PSD)
1205842335	683471004(BRA-BRGWC-25I) Post Spike (PS)
1205842336	683471004(BRA-BRGWC-25I) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2665536

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205840987	Laboratory Control Sample (LCS)
1205840988	Laboratory Control Sample (LCS)
1205840989	Laboratory Control Sample Duplicate (LCSD)
1205840990	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

683479
683468

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: B. Ford J. May
ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA-PZ-50D	08/29/24	1060	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-64I	08/29/24	1135	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-61I	08/29/24	1205	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC50	08/29/24	1330	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51D	08/29/24	1340	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-03	08/29/24	1500	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-03	08/29/24	✓	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51I	08/29/24	1420	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-06	08/29/24	1425	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-PZ-60I	08/29/24	1244	G	N	WG			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		08-30-24	0830		8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: JBrooks 8/29/24 | ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- P2-58I	08/29/24	1515	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S2
BRA-															
BRA-															
BRA-															
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BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683468

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 03 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 16, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683471

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683471001	BRA-BRGWC-45	Ground Water	08/29/24 09:55	08/30/24 08:30
683471002	BRA-APBCD-EB-05	Water	08/29/24 10:25	08/30/24 08:30
683471003	BRA-APBCD-FD-02	Ground Water	08/29/24 12:00	08/30/24 08:30
683471004	BRA-BRGWC-25I	Ground Water	08/29/24 10:17	08/30/24 08:30
683471005	BRA-PZ-68D	Ground Water	08/29/24 09:58	08/30/24 08:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	03-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	30-AUG-2024
EPA 300.0	31-AUG-2024
SM 2320B	30-AUG-2024

SM 2540C	04-SEP-2024
SM 4500-S (2-) D	03-SEP-2024
SW846 3005A/6020B	09-SEP-2024
SW846 3005A/6020B	10-SEP-2024
SW846 3005A/6020B	11-SEP-2024
SW846 7470A	04-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683471 GEL Work Order: 683471

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

H Analytical holding time was exceeded

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	683471001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-AUG-24 09:55		
Receive Date:	30-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		24.8	3.35	10.0	mg/L		50	CH6	08/31/24	0312	2665497	1
Sulfate		150	6.65	20.0	mg/L		50					
Fluoride	J	0.0780	0.0330	0.100	mg/L		1	CH6	08/31/24	1242	2665497	2
Nitrate-N	HU	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1223	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1749	2665671	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0602	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0431	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		42.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00203	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0353	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.0	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000207	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.24	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		15.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.140	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1625	2665671	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2116	2665671	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		353	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	8

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Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	683471001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		38.2	0.725	2.00	mg/L			JW2	08/30/24	1443	2665536	9
Bicarbonate alkalinity (CaCO3)		38.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APBCD-EB-05	Project:	GPCC00101
Sample ID:	683471002	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	29-AUG-24 10:25		
Receive Date:	30-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	1247	2665497	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1224	2665644	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	1937	2665671	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1552	2665671	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1608	2665671	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	7

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Certificate of Analysis

Report Date: September 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 683471002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1444	2665536	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 683471003
Matrix: WG
Collect Date: 29-AUG-24 12:00
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		13.9	1.34	4.00	mg/L		20	CH6	08/31/24	0343	2665497	1
Sulfate		216	2.66	8.00	mg/L		20					
Fluoride		0.253	0.0330	0.100	mg/L		1	CH6	08/30/24	1318	2665497	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1226	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1754	2665671	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0289	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00334	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		28.0	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00127	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.08	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2122	2665671	5
Boron		2.10	0.104	0.300	mg/L	1.00	20	BAJ	09/10/24	1759	2665671	6
Calcium		78.3	0.400	1.00	mg/L	1.00	5	BAJ	09/10/24	1756	2665671	7
Manganese		2.38	0.00500	0.0250	mg/L	1.00	5	BAJ	09/11/24	1626	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		493	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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Certificate of Analysis

Report Date: September 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 683471003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		97.8	0.725	2.00	mg/L			JW2	08/30/24	1445	2665536	11
Bicarbonate alkalinity (CaCO3)		97.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-25I
Sample ID: 683471004
Matrix: WG
Collect Date: 29-AUG-24 10:17
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		13.7	1.34	4.00	mg/L		20	CH6	08/31/24	0413	2665497	1
Sulfate		216	2.66	8.00	mg/L		20					
Fluoride		0.248	0.0330	0.100	mg/L		1	CH6	08/30/24	1348	2665497	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1228	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		77.6	0.400	1.00	mg/L	1.00	5	BAJ	09/10/24	1808	2665671	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1806	2665671	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0291	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00319	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00123	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.86	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		2.34	0.00500	0.0250	mg/L	1.00	5	BAJ	09/11/24	1627	2665671	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2128	2665671	7
Boron		2.04	0.104	0.300	mg/L	1.00	20	BAJ	09/10/24	1810	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		492	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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Certificate of Analysis

Report Date: September 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-25I
Sample ID: 683471004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		98.4	0.725	2.00	mg/L			JW2	08/30/24	1447	2665536	11
Bicarbonate alkalinity (CaCO3)		98.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-68D	Project:	GPCC00101
Sample ID:	683471005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-AUG-24 09:58		
Receive Date:	30-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		18.1	1.34	4.00	mg/L		20	CH6	08/31/24	0444	2665497	1
Sulfate		280	2.66	8.00	mg/L		20					
Fluoride		0.126	0.0330	0.100	mg/L		1	CH6	08/30/24	1419	2665497	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1229	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2133	2665671	4
Manganese		0.150	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1628	2665671	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1813	2665671	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0796	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000526	0.000300	0.00100	mg/L	1.00	1					
Iron		0.399	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00633	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00702	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.24	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		35.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.404	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1815	2665671	7
Calcium		96.7	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		601	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	9

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-68D
Sample ID: 683471005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		114	0.725	2.00	mg/L			JW2	08/30/24	1448	2665536	10
Bicarbonate alkalinity (CaCO3)		114	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 16, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2665497										
QC1205840892 683471005 DUP										
Chloride		18.1		18.2	mg/L	0.0881 ^		(+/-4.00)	CH6	08/31/24 06:17
Fluoride		0.126		0.127	mg/L	0.395 ^		(+/-0.100)		08/31/24 00:37
Nitrate-N	U	ND	U	ND	mg/L	N/A				
Sulfate		280		280	mg/L	0.106		(0%-20%)		08/31/24 06:17
QC1205840891 LCS										
Chloride	5.00			4.68	mg/L		93.6	(90%-110%)		08/31/24 00:06
Fluoride	2.50			2.33	mg/L		93.4	(90%-110%)		
Nitrate-N	2.50			2.37	mg/L		94.8	(90%-110%)		
Sulfate	10.0			9.40	mg/L		94	(90%-110%)		
QC1205840890 MB										
Chloride			U	ND	mg/L					08/30/24 22:34
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683471**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2665497											
QC1205840893 683471005 PS											
Chloride	5.00		0.907		5.66	mg/L		95.1	(90%-110%)	CH6	08/31/24 06:48
Fluoride	2.50		0.126		2.50	mg/L		94.9	(90%-110%)		08/31/24 01:08
Nitrate-N	2.50	U	ND		2.39	mg/L		95.5	(90%-110%)		
Sulfate	10.0		14.0		24.3	mg/L		103	(90%-110%)		08/31/24 06:48
Metals Analysis - ICPMS											
Batch 2665671											
QC1205841255 LCS											
Antimony	0.0500				0.0491	mg/L		98.3	(80%-120%)	BAJ	09/10/24 15:44
Arsenic	0.0500				0.0527	mg/L		105	(80%-120%)		
Barium	0.0500				0.0488	mg/L		97.5	(80%-120%)		
Beryllium	0.0500				0.0600	mg/L		120	(80%-120%)		09/09/24 19:29
Boron	0.100				0.113	mg/L		113	(80%-120%)		09/10/24 15:44
Cadmium	0.0500				0.0505	mg/L		101	(80%-120%)		
Calcium	2.00				2.10	mg/L		105	(80%-120%)		
Chromium	0.0500				0.0511	mg/L		102	(80%-120%)		
Cobalt	0.0500				0.0508	mg/L		102	(80%-120%)		

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Iron	2.00			2.01	mg/L		101	(80%-120%)	BAJ	09/10/24 15:44
Lead	0.0500			0.0516	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0593	mg/L		119	(80%-120%)		
Magnesium	2.00			2.25	mg/L		113	(80%-120%)		
Manganese	0.0500			0.0514	mg/L		103	(80%-120%)		09/11/24 16:05
Molybdenum	0.0500			0.0509	mg/L		102	(80%-120%)		09/10/24 15:44
Potassium	2.00			2.14	mg/L		107	(80%-120%)		
Selenium	0.0500			0.0509	mg/L		102	(80%-120%)		
Sodium	2.00			2.29	mg/L		115	(80%-120%)		
Thallium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
QC1205841254 MB										
Antimony			U	ND	mg/L					09/10/24 15:42
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					09/09/24 19:26

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2665671											
Boron			U	ND	mg/L				BAJ	09/10/24	15:42
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/11/24	16:04
Molybdenum			U	ND	mg/L					09/10/24	15:42
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						

QC Summary

Workorder: **683471**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Thallium				U	ND	mg/L				BAJ	09/10/24 15:42
QC1205841256 683468001 MS											
Antimony	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		09/10/24 16:10
Arsenic	0.0500	U	ND		0.0552	mg/L		107	(75%-125%)		
Barium	0.0500		0.0260		0.0752	mg/L		98.5	(75%-125%)		
Beryllium	0.0500	U	ND		0.0533	mg/L		106	(75%-125%)		09/09/24 19:49
Boron	0.100		0.298		0.395	mg/L		97.7	(75%-125%)		09/10/24 16:22
Cadmium	0.0500	U	ND		0.0493	mg/L		98.5	(75%-125%)		09/10/24 16:10
Calcium	2.00		197		203	mg/L		N/A	(75%-125%)		09/10/24 16:22
Chromium	0.0500	U	ND		0.0491	mg/L		98.2	(75%-125%)		09/10/24 16:10
Cobalt	0.0500		0.111		0.161	mg/L		99.9	(75%-125%)		
Iron	2.00		2.01		4.01	mg/L		99.6	(75%-125%)		
Lead	0.0500	U	ND		0.0462	mg/L		92.3	(75%-125%)		
Lithium	0.0500		0.0279		0.0826	mg/L		109	(75%-125%)		
Magnesium	2.00		76.6		79.0	mg/L		N/A	(75%-125%)		09/10/24 16:22

QC Summary

Workorder: **683471**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Manganese	0.0500		9.82		10.2	mg/L		N/A	(75%-125%)	BAJ	09/11/24 16:10
Molybdenum	0.0500	J	0.000466		0.0536	mg/L		106	(75%-125%)		09/10/24 16:10
Potassium	2.00		11.2		13.3	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0571	mg/L		114	(75%-125%)		
Sodium	2.00		45.8		48.7	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
QC1205841257 683468001 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	0.666	99.8	(0%-20%)		09/10/24 16:13
Arsenic	0.0500	U	ND		0.0544	mg/L	1.45	105	(0%-20%)		
Barium	0.0500		0.0260		0.0722	mg/L	4.18	92.4	(0%-20%)		
Beryllium	0.0500	U	ND		0.0528	mg/L	1.04	105	(0%-20%)		09/09/24 19:51
Boron	0.100		0.298		0.388	mg/L	1.93	90.1	(0%-20%)		09/10/24 16:25
Cadmium	0.0500	U	ND		0.0487	mg/L	1.27	97.3	(0%-20%)		09/10/24 16:13
Calcium	2.00		197		201	mg/L	0.721	N/A	(0%-20%)		09/10/24 16:25
Chromium	0.0500	U	ND		0.0488	mg/L	0.699	97.5	(0%-20%)		09/10/24 16:13

QC Summary

Workorder: **683471**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Cobalt	0.0500		0.111		0.160	mg/L	0.857	97.1	(0%-20%)	BAJ	09/10/24 16:13
Iron	2.00		2.01		3.94	mg/L	1.65	96.3	(0%-20%)		
Lead	0.0500	U	ND		0.0448	mg/L	3.02	89.5	(0%-20%)		
Lithium	0.0500		0.0279		0.0812	mg/L	1.7	107	(0%-20%)		
Magnesium	2.00		76.6		79.2	mg/L	0.15	N/A	(0%-20%)		09/10/24 16:25
Manganese	0.0500		9.82		10.4	mg/L	2.36	N/A	(0%-20%)		09/11/24 16:11
Molybdenum	0.0500	J	0.000466		0.0528	mg/L	1.42	105	(0%-20%)		09/10/24 16:13
Potassium	2.00		11.2		13.1	mg/L	1.53	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0554	mg/L	3.01	111	(0%-20%)		
Sodium	2.00		45.8		47.9	mg/L	1.71	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0443	mg/L	1.74	88.5	(0%-20%)		
QC1205841258 683468001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.0		5.69	ug/L	9.47		(0%-20%)		

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/09/24 19:57
Boron		59.5		15.8	ug/L	32.8		(0%-20%)		09/10/24 16:29
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Calcium		39400		8160	ug/L	3.49		(0%-20%)		09/10/24 16:29
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Cobalt		111		24.0	ug/L	8.09		(0%-20%)		
Iron		2010		426	ug/L	5.83		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		27.9	J	5.65	ug/L	1.37		(0%-20%)		
Magnesium		15300		3270	ug/L	6.63		(0%-20%)		09/10/24 16:29
Manganese		196		42.1	ug/L	7.19		(0%-20%)		09/11/24 16:12
Molybdenum	J	0.466	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Potassium		11200		2360	ug/L	5.45		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Sodium		45800		9540	ug/L	4.02		(0%-20%)	BAJ	09/10/24 16:17
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2665644										
QC1205841207 683468001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/04/24 11:57
QC1205841206 LCS										
Mercury 0.00200				0.00198	mg/L		99.2	(80%-120%)		09/04/24 11:48
QC1205841205 MB										
Mercury			U	ND	mg/L					09/04/24 11:47
QC1205841208 683468001 MS										
Mercury 0.00200	U	ND		0.00170	mg/L		85.1	(75%-125%)		09/04/24 11:58
QC1205841209 683468001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/04/24 12:00
Solids Analysis										
Batch 2666218										
QC1205842591 683468001 DUP										
Total Dissolved Solids		1490		1240	mg/L	18.3 *		(0%-5%)	KLP1	09/04/24 11:05
QC1205842592 683471004 DUP										
Total Dissolved Solids		492		493	mg/L	0.203		(0%-5%)		09/04/24 11:05
QC1205842590 LCS										
Total Dissolved Solids 300				300	mg/L		100	(95%-105%)		09/04/24 11:05

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2666218										
QC1205842589 MB										
Total Dissolved Solids			U	ND	mg/L				KLP1	09/04/24 11:05
Spectrometric Analysis										
Batch 2666112										
QC1205842332 LCS										
Total Sulfide	0.400			0.405	mg/L		101	(85%-115%)	JW2	09/03/24 10:08
QC1205842331 MB										
Total Sulfide			U	ND	mg/L					09/03/24 10:08
QC1205842333 683468001 PS										
Total Sulfide	0.400	U	ND	0.402	mg/L		100	(75%-125%)		09/03/24 10:08
QC1205842335 683471004 PS										
Total Sulfide	0.400	U	ND	0.388	mg/L		97	(75%-125%)		09/03/24 10:08
QC1205842334 683468001 PSD										
Total Sulfide	0.400	U	ND	0.392	mg/L	2.47	98	(0%-15%)		09/03/24 10:08
QC1205842336 683471004 PSD										
Total Sulfide	0.400	U	ND	0.377	mg/L	2.89	94.3	(0%-15%)		09/03/24 10:08
Titration and Ion Analysis										
Batch 2665536										
QC1205840987 LCS										
Alkalinity, Total as CaCO3	50.0			50.6	mg/L		101	(90%-110%)	JW2	08/30/24 14:22
QC1205840988 LCS										
Alkalinity, Total as CaCO3	15.0			14.5	mg/L		96.7	(90%-110%)		08/30/24 14:24
QC1205840989 LCSD										
Alkalinity, Total as CaCO3	50.0			50.3	mg/L	0.595	101	(0%-20%)		08/30/24 14:23

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2665536											
QC1205840990 LCSD											
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	4.71	101	(0%-20%)	JW2	08/30/24	14:25

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
***** Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 683471

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665671

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665670

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205841254	Method Blank (MB)**ICP-MS**
1205841255	Laboratory Control Sample (LCS)
1205841258	683468001(BRA-PZ-50DL) Serial Dilution (SD)
1205841256	683468001(BRA-PZ-50DS) Matrix Spike (MS)
1205841257	683468001(BRA-PZ-50DSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683471003 (BRA-APBCD-FD-02), 683471004 (BRA-BRGWC-25I) and 683471005 (BRA-PZ-68D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683471		
	003	004	005

Boron	20X	20X	5X
Calcium	5X	5X	5X
Manganese	5X	5X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665644

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665643

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205841205	Method Blank (MB)**CVAA**
1205841206	Laboratory Control Sample (LCS)
1205841209	683468001(BRA-PZ-50DL) Serial Dilution (SD)
1205841207	683468001(BRA-PZ-50DD) Sample Duplicate (DUP)
1205841208	683468001(BRA-PZ-50DS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Double potassium permanganate was added to the sample and associated QC to prevent premature reduction of the reagent. 1205841205 (MB) and 1205841206 (LCS).

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2665497

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205840890	Method Blank (MB)
1205840891	Laboratory Control Sample (LCS)
1205840892	683471005(BRA-PZ-68D) Sample Duplicate (DUP)
1205840893	683471005(BRA-PZ-68D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Times
Sample (See Below) was initially analyzed within holding; however, the holding time had expired prior to reanalysis of diluted sample. The data is qualified.

Sample	Analyte	Value
683471001 (BRA-BRGWC-45)	Nitrate-N	Received 30-AUG-24, within holding, analyzed 31-AUG-24, out of holding 31-AUG-24

Sample Dilutions
The following samples 1205840892 (BRA-PZ-68DDUP), 1205840893 (BRA-PZ-68DPS), 683471001 (BRA-BRGWC-45), 683471003 (BRA-APBCD-FD-02), 683471004 (BRA-BRGWC-25I) and 683471005 (BRA-PZ-68D) were diluted because target analyte concentrations exceeded the calibration range. The following sample 683471001 (BRA-BRGWC-45) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683471			
	001	003	004	005
Chloride	50X	20X	20X	20X
Sulfate	50X	20X	20X	20X

Sample Re-analysis
Sample 683471001 (BRA-BRGWC-45) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations
Samples 1205840892 (BRA-PZ-68DDUP), 1205840893 (BRA-PZ-68DPS), 683471001 (BRA-BRGWC-45), 683471003 (BRA-APBCD-FD-02), 683471004 (BRA-BRGWC-25I) and 683471005 (BRA-PZ-68D) were manually

integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666218

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205842589	Method Blank (MB)
1205842590	Laboratory Control Sample (LCS)
1205842591	683468001(BRA-PZ-50D) Sample Duplicate (DUP)
1205842592	683471004(BRA-BRGWC-25I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205842591 (BRA-PZ-50DDUP)	18.3* (0%-5%)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 1205842591 (BRA-PZ-50DDUP).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2666112

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05

683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205842331	Method Blank (MB)
1205842332	Laboratory Control Sample (LCS)
1205842333	683468001(BRA-PZ-50D) Post Spike (PS)
1205842334	683468001(BRA-PZ-50D) Post Spike Duplicate (PSD)
1205842335	683471004(BRA-BRGWC-25I) Post Spike (PS)
1205842336	683471004(BRA-BRGWC-25I) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2665536

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205840987	Laboratory Control Sample (LCS)
1205840988	Laboratory Control Sample (LCS)
1205840989	Laboratory Control Sample Duplicate (LCSD)
1205840990	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

683471
683474

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: Brian Gay 22 May | ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-45	08/29/24	0955	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-EB-05	08/29/24	1025	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-02	08/29/24	—	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-25I	08/29/24	1017	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-68D	08/29/24	0958	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 16 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 16, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683475

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample collection times were changed by the client from 10:30 to 11:30 on all the containers except for the sample container designated for TDS analysis. Client was notified via email. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683475001	BRA-PZ-63I	Ground Water	08/29/24 11:30	08/30/24 08:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	04-SEP-2024
SW846 7470A Prep	04-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	03-SEP-2024
EPA 300.0	04-SEP-2024
SM 2320B	03-SEP-2024
SM 2540C	04-SEP-2024
SM 4500-S (2-) D	03-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 3005A/6020B	09-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683475 GEL Work Order: 683475

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

H Analytical holding time was exceeded

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-63I	Project:	GPCC00101
Sample ID:	683475001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-AUG-24 11:30		
Receive Date:	30-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		344	6.65	20.0	mg/L		50	TXT1	09/04/24	1306	2666362	1
Chloride		6.86	0.0670	0.200	mg/L		1	TXT1	09/03/24	1837	2666362	2
Fluoride		0.139	0.0330	0.100	mg/L		1					
Nitrate-N	H	0.754	0.0660	0.200	mg/L		2	TXT1	09/04/24	1235	2666362	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/05/24	1003	2666519	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.731	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	2343	2666441	5
Calcium		65.6	0.400	1.00	mg/L	1.00	5					
Manganese		8.12	0.0250	0.125	mg/L	1.00	25	BAJ	09/09/24	1251	2666441	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/08/24	2329	2666441	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0206	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0335	0.000300	0.00100	mg/L	1.00	1					
Iron		0.741	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00651	0.00300	0.0100	mg/L	1.00	1					
Magnesium		45.0	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000827	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.41	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		625	2.38	10.0	mg/L			KLP1	09/04/24	1124	2666643	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1703	2666456	9

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-63I
Sample ID: 683475001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		22.5	0.725	2.00	mg/L			JW2	09/03/24	1710	2666454	10
Bicarbonate alkalinity (CaCO3)		22.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/04/24	1115	2666518
SW846 3005A	ICP-MS 3005A PREP	BB2	09/04/24	1510	2666440

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 16, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2666362										
QC1205842860 683236002 DUP										
Chloride		7.02		7.06	mg/L	0.503		(0%-20%)	TXT1	09/03/24 15:29
Fluoride		0.859		0.863	mg/L	0.523		(0%-20%)		
Nitrate-N		1.17		1.17	mg/L	0.189		(0%-20%)		
Sulfate		18.3		18.2	mg/L	0.142		(0%-20%)		
QC1205842859 LCS										
Chloride	5.00			4.61	mg/L		92.2	(90%-110%)		09/03/24 14:26
Fluoride	2.50			2.34	mg/L		93.7	(90%-110%)		
Nitrate-N	2.50			2.32	mg/L		92.8	(90%-110%)		
Sulfate	10.0			9.35	mg/L		93.5	(90%-110%)		
QC1205842858 MB										
Chloride			U	ND	mg/L					09/03/24 13:55
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2666362										
QC1205842861 683236002 PS										
Chloride	5.00	7.02		12.3	mg/L		106	(90%-110%)	TXT1	09/03/24 16:00
Fluoride	2.50	0.859		3.27	mg/L		96.4	(90%-110%)		
Nitrate-N	2.50	1.17		3.54	mg/L		95.2	(90%-110%)		
Sulfate	10.0	18.3		28.8	mg/L		105	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2666441										
QC1205842995 LCS										
Antimony	0.0500			0.0485	mg/L		96.9	(80%-120%)	BAJ	09/08/24 23:21
Arsenic	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500			0.0487	mg/L		97.4	(80%-120%)		
Beryllium	0.0500			0.0601	mg/L		120	(80%-120%)		
Boron	0.100			0.112	mg/L		112	(80%-120%)		
Cadmium	0.0500			0.0495	mg/L		99	(80%-120%)		
Calcium	2.00			2.05	mg/L		102	(80%-120%)		
Chromium	0.0500			0.0476	mg/L		95.2	(80%-120%)		
Cobalt	0.0500			0.0485	mg/L		97.1	(80%-120%)		

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2666441										
Iron	2.00			1.90	mg/L		94.8	(80%-120%)	BAJ	09/08/24 23:21
Lead	0.0500			0.0478	mg/L		95.6	(80%-120%)		
Lithium	0.0500			0.0555	mg/L		111	(80%-120%)		
Magnesium	2.00			2.13	mg/L		106	(80%-120%)		
Manganese	0.0500			0.0487	mg/L		97.4	(80%-120%)		09/09/24 12:50
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)		09/08/24 23:21
Potassium	2.00			2.05	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Sodium	2.00			2.17	mg/L		109	(80%-120%)		
Thallium	0.0500			0.0454	mg/L		90.9	(80%-120%)		
QC1205842994 MB										
Antimony			U	ND	mg/L					09/08/24 23:18
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2666441										
Boron			U	ND	mg/L				BAJ	09/08/24 23:18
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					09/09/24 12:49
Molybdenum			U	ND	mg/L					09/08/24 23:18
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2666441											
Thallium				U	ND	mg/L				BAJ	09/08/24 23:18
QC1205842996 683475001 MS											
Antimony	0.0500	U	ND		0.0479	mg/L		95.7	(75%-125%)		09/08/24 23:32
Arsenic	0.0500	U	ND		0.0520	mg/L		100	(75%-125%)		
Barium	0.0500		0.0206		0.0684	mg/L		95.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0610	mg/L		122	(75%-125%)		
Boron	0.100		0.731		0.809	mg/L		N/A	(75%-125%)		09/08/24 23:46
Cadmium	0.0500	U	ND		0.0483	mg/L		96.3	(75%-125%)		09/08/24 23:32
Calcium	2.00		65.6		66.7	mg/L		N/A	(75%-125%)		09/08/24 23:46
Chromium	0.0500	U	ND		0.0479	mg/L		95.4	(75%-125%)		09/08/24 23:32
Cobalt	0.0500		0.0335		0.0796	mg/L		92.3	(75%-125%)		
Iron	2.00		0.741		2.60	mg/L		93.1	(75%-125%)		
Lead	0.0500	U	ND		0.0453	mg/L		90.5	(75%-125%)		
Lithium	0.0500	J	0.00651		0.0620	mg/L		111	(75%-125%)		
Magnesium	2.00		45.0		46.5	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2666441											
Manganese	0.0500		8.12		8.18	mg/L		N/A	(75%-125%)	BAJ	09/09/24 12:52
Molybdenum	0.0500	J	0.000827		0.0535	mg/L		105	(75%-125%)		09/08/24 23:32
Potassium	2.00		8.41		10.4	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0503	mg/L		99.7	(75%-125%)		
Sodium	2.00		19.6		21.4	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0437	mg/L		87.4	(75%-125%)		
QC1205842997 683475001 MSD											
Antimony	0.0500	U	ND		0.0496	mg/L	3.62	99.2	(0%-20%)		09/08/24 23:35
Arsenic	0.0500	U	ND		0.0521	mg/L	0.221	100	(0%-20%)		
Barium	0.0500		0.0206		0.0701	mg/L	2.32	98.8	(0%-20%)		
Beryllium	0.0500	U	ND		0.0618	mg/L	1.21	123	(0%-20%)		
Boron	0.100		0.731		0.814	mg/L	0.651	N/A	(0%-20%)		09/08/24 23:49
Cadmium	0.0500	U	ND		0.0504	mg/L	4.17	100	(0%-20%)		09/08/24 23:35
Calcium	2.00		65.6		66.2	mg/L	0.783	N/A	(0%-20%)		09/08/24 23:49
Chromium	0.0500	U	ND		0.0488	mg/L	1.7	97	(0%-20%)		09/08/24 23:35

QC Summary

Workorder: **683475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2666441											
Cobalt	0.0500		0.0335		0.0798	mg/L	0.198	92.6	(0%-20%)	BAJ	09/08/24 23:35
Iron	2.00		0.741		2.64	mg/L	1.26	94.8	(0%-20%)		
Lead	0.0500	U	ND		0.0468	mg/L	3.24	93.5	(0%-20%)		
Lithium	0.0500	J	0.00651		0.0639	mg/L	3.11	115	(0%-20%)		
Magnesium	2.00		45.0		47.2	mg/L	1.31	N/A	(0%-20%)		
Manganese	0.0500		8.12		8.09	mg/L	1.13	N/A	(0%-20%)		09/09/24 12:53
Molybdenum	0.0500	J	0.000827		0.0553	mg/L	3.31	109	(0%-20%)		09/08/24 23:35
Potassium	2.00		8.41		10.5	mg/L	0.437	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0524	mg/L	4.19	104	(0%-20%)		
Sodium	2.00		19.6		21.6	mg/L	0.879	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0453	mg/L	3.69	90.6	(0%-20%)		
QC1205842998 683475001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24 23:40
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			20.6	J	3.98	ug/L	3.52		(0%-20%)		

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2666441										
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/08/24 23:40
Boron		146		34.2	ug/L	16.9		(0%-20%)		09/08/24 23:55
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24 23:40
Calcium		13100		2630	ug/L	.303		(0%-20%)		09/08/24 23:55
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24 23:40
Cobalt		33.5		6.83	ug/L	1.95		(0%-20%)		
Iron		741		152	ug/L	2.58		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	6.51	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		45000		9210	ug/L	2.4		(0%-20%)		
Manganese		325		65.8	ug/L	1.29		(0%-20%)		09/09/24 12:54
Molybdenum	J	0.827	U	ND	ug/L	N/A		(0%-20%)		09/08/24 23:40
Potassium		8410		1590	ug/L	5.36		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2666441										
Sodium		19600		4060	ug/L	3.42		(0%-20%)	BAJ	09/08/24 23:40
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2666519										
QC1205843135 683196014 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/05/24 09:57
QC1205843134 LCS										
Mercury	0.00200			0.00202	mg/L		101	(80%-120%)		09/05/24 09:52
QC1205843133 MB										
Mercury			U	ND	mg/L					09/05/24 09:50
QC1205843136 683196014 MS										
Mercury	0.00200	U	ND	0.00201	mg/L		101	(75%-125%)		09/05/24 09:58
QC1205843137 683196014 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/05/24 10:00
Solids Analysis										
Batch 2666643										
QC1205843360 683782002 DUP										
Total Dissolved Solids		145		151	mg/L	4.05		(0%-5%)	KLP1	09/04/24 11:24
QC1205843359 LCS										
Total Dissolved Solids	300			299	mg/L		99.7	(95%-105%)		09/04/24 11:24
QC1205843358 MB										
Total Dissolved Solids			U	ND	mg/L					09/04/24 11:24

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2666456										
QC1205843027 LCS										
Total Sulfide	0.400			0.402	mg/L		100	(85%-115%)	JW2	09/03/24 17:03
QC1205843026 MB										
Total Sulfide			U	ND	mg/L					09/03/24 17:03
QC1205843028 683475001 PS										
Total Sulfide	0.400 U	ND		0.386	mg/L		96.4	(75%-125%)		09/03/24 17:03
QC1205843029 683475001 PSD										
Total Sulfide	0.400 U	ND		0.377	mg/L	2.25	94.3	(0%-15%)		09/03/24 17:03
Titration and Ion Analysis										
Batch 2666454										
QC1205843021 LCS										
Alkalinity, Total as CaCO3	50.0			50.7	mg/L		101	(90%-110%)	JW2	09/03/24 17:05
QC1205843034 LCSD										
Alkalinity, Total as CaCO3	50.0			51.1	mg/L	0.786	102	(0%-20%)		09/03/24 17:07

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
***** Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2666441

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2666440

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205842994	Method Blank (MB)**ICP-MS**
1205842995	Laboratory Control Sample (LCS)
1205842998	683475001(BRA-PZ-63IL) Serial Dilution (SD)
1205842996	683475001(BRA-PZ-63IS) Matrix Spike (MS)
1205842997	683475001(BRA-PZ-63ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	**683475**
	001
Boron	5X
Calcium	5X
Manganese	25X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2666519

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2666518

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205843133	Method Blank (MB)**CVAA**
1205843134	Laboratory Control Sample (LCS)
1205843137	683196014(NonSDGL) Serial Dilution (SD)
1205843135	683196014(NonSDGD) Sample Duplicate (DUP)
1205843136	683196014(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2666362

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205842858	Method Blank (MB)
1205842859	Laboratory Control Sample (LCS)
1205842860	683236002(NonSDG) Sample Duplicate (DUP)
1205842861	683236002(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Times
Sample (See Below) was logged in for this analysis outside of the method specified holding time. The data is qualified.

Sample	Analyte	Value
683475001 (BRA-PZ-63I)	Nitrate-N	Received 30-AUG-24, within holding, analyzed 04-SEP-24, out of holding 31-AUG-24

Sample Dilutions
The following sample 683475001 (BRA-PZ-63I) was diluted because target analyte concentrations exceeded the calibration range. The following sample 683475001 (BRA-PZ-63I) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683475 001
Nitrate-N	2X
Sulfate	50X

Miscellaneous Information

Manual Integrations
Samples 1205842860 (Non SDG 683236002DUP), 1205842861 (Non SDG 683236002PS) and 683475001 (BRA-PZ-63I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666643

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205843358	Method Blank (MB)
1205843359	Laboratory Control Sample (LCS)
1205843360	683782002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2666456

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205843026	Method Blank (MB)
1205843027	Laboratory Control Sample (LCS)
1205843028	683475001(BRA-PZ-63I) Post Spike (PS)
1205843029	683475001(BRA-PZ-63I) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2666454

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205843021	Laboratory Control Sample (LCS)
1205843034	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

683475
683477

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. May ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- P2-63I	08/29/24	1130	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 16 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Geosyntec consultants

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Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	28 January 2025
To:	Courtney Collins
From:	Ashley Wilson
CC:	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 683169, 683173, 683176, 683387, 683390, 683471 and 683475**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring AP-BCD & AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty groundwater samples, four equipment blanks, four field blanks and four field duplicate samples collected 27-29 August 2024, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives, with the following exceptions.

The non-detect results of nitrate as N in samples BRA-BRGWC-45, BRA-APE-FD-05 and BRA-BRGWC-35S were R qualified as rejected due analysis outside of holding time.

The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
683387001	BRA-BRGWC-17S

Laboratory IDs	Client IDs
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
683475001	BRA-PZ-63I

The samples were received at 0.0, 2.0 and 1.0 degrees Celsius (^{o}C), both within and outside of the EPA Region 4 criteria of 4^{o}C $\pm$ 2^{o}C. Since the samples were received between 0-6^{o}C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

683176 and 683177: The laboratory noted that the metals containers for samples GWA-2I and BRA-BRGWA-6S were missing labels. The radium container for sample BRA-BRGWA-2S was also noted as missing the label.

683169, 683170, 683173, 683174, 683176 and 683177: The laboratory noted three 1L containers were received without labels.

683471: The laboratory noted that sample BRA-PZ-68D was missing a collection time for TDS. The time was changed to 11:30 by the laboratory.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to

the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three sample set specific MS/MSD pairs were reported, using samples BRA-BRGWC-38S, BRA-BRGWC-17S and BRA-PZ-63I. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

Batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Four field blanks, BRA-APE-FB-07, BRA-APBCD-FB-01, BRA-APE-FB-08 and BRA-APBCD-FB-02 were collected with the sample set. Metals were not detected in the field blanks at or above the MDLs, with the following exceptions.

683387: Boron (0.0208 mg/L) was detected in field blank BRA-APE-FB-08 at a concentration greater than the RL. Therefore, the estimated boron concentration in BRA-APE-EB-09 was U qualified as not detected at the RL, and the concentrations of boron in samples BRA-BRGWC-17S and BRA-PZ-52D were J+ qualified as estimated with high bias.

683390: Boron (0.00979 mg/L) was detected at an estimated concentrations greater than the MDL and less than the RL in field blank BRA-APBCD-FB-02. Since the concentration of boron in the associated samples was greater than ten times the blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-APE-EB-09	Boron	0.00556	J	0.0150	U	BFH
BRA-BRGWC-17S	Boron	0.0721	NA	0.0721	J+	BFH
BRA-PZ-52D	Boron	0.0751	NA	0.0751	J+	BFH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APE-EB-09, BRA-APE-EB-10 and BRA-APBCD-EB-05 were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

683389: Boron (0.00556 mg/L) was detected in equipment blank BRA-APE-EB-09 at a concentration greater than the MDL and less than the RL. Since the boron concentration in the equipment blank was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.9 Field Duplicate

Four duplicate samples, BRA-APE-FD-04, BRA-APBCD-FD-01, BRA-APE-FD-05 and BRA-APBCD-FD-02 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-PZ-13S, BRA-BRGWC-27I, BRA-BRGWC-35S and BRA-BRGWC-25I, respectively, with the following exceptions.

683387: Beryllium was not detected in sample BRA-BRGWC-35S and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

683173: Molybdenum was detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-27I and not detected in field duplicate BRA-APBCD-FD-01, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

1.10 Serial Dilution

Three sample set specific serial dilutions were reported for metals using samples BRA-BRGWC-38S, BRA-BRGWC-17S and BRA-PZ-63I. The percent difference (%D) results were within the method specified acceptance criteria.

Batch serial dilutions were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MSs were reported using samples BRA-

BRGWC-38S and BRA-BRGWC-17S. The recovery results were within the laboratory specified acceptance criteria.

Batch MSs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported using sample BRA-BRGWC-38S and BRA-BRGWC-17S. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Four field blanks, BRA-APE-FB-07, BRA-APBCD-FB-01, BRA-APE-FB-08 and BRA-APBCD-FB-02 were collected with the sample set. Mercury was not detected in the field blanks at or above the MDL.

2.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APE-EB-09, BRA-APE-EB-10 and BRA-APBCD-EB-05 were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Field Duplicate

Four duplicate samples, BRA-APE-FD-04, BRA-APBCD-FD-01, BRA-APE-FD-05 and BRA-APBCD-FD-02 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-PZ-13S, BRA-BRGWC-27I, BRA-BRGWC-35S and BRA-BRGWC-25I, respectively.

2.10 Serial Dilution

Two sample set specific serial dilutions were performed using samples BRA-BRGWC-38S and BRA-BRGWC-17S. The %D results were within the method specified acceptance criteria.

Batch serial dilutions were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
⊗ Holding Times
⊗ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
⊗ Laboratory Duplicate
⊗ Field Blank
⊗ Equipment Blank
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives with the following exception. The non-detect results of nitrate as N in samples BRA-BRGWC-45, BRA-APE-FD-05 and BRA-BRGWC-35S were R qualified as rejected due analysis outside of holding time. Therefore, the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for the analysis, for this data set is 98.4%.

3.1.2 Analysis Anomaly

683169, 683173, 683176, 683387, 683390, 683471 and 683475: The laboratory noted that samples BRA-BRGWC-38S, BRA-PZ-53D, BRA-PZ-13S, BRA-BRGWC-37S, BRA-APE-FD-04, BRA-BRGWC-29I, BRA-APBCD-FD-01, BRA-BRGWA-2S, BRA-BRGWA-5S, BRA-BRGWA-2I, BRA-BRGWA-5I and BRA-BRGWA-6S, BRA-BRGWC-17S, BRA-BRGWC-33S, BRA-BRGWC-35S, BRA-BRGWC-36S, BRA-PZ-52D, BRA-APE-FD-05, BRA-BRGWC-52I, BRA-BRGWC-32, BRA-BRGWC-45, BRA-APBCD-FD-02, BRA-BRGWC-25I, BRA-PZ-68D and BRA-PZ-63I were manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the nitrate-N analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met, with the following exceptions.

683387, 683475 and 683471: Nitrate-N was analyzed outside of the 48-hour holding time for samples BRA-BRGWC-35S, BRA-APE-FD-05, BRA-APE-EB-09, BRA-BRGWC-45 and BRA-PZ-63I. Therefore, the nondetect results for BRA-BRGWC-45, BRA-APE-FD-05 and BRA-BRGWC-35S were R qualified as rejected and the concentrations in samples BRA-PZ-63I and BRA-APE-EB-09 were J- qualified as estimated with a low bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-45	Nitrogen Nitrate	0.0330	HU	0.0330	R	HT2

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APE-EB-09	Nitrogen Nitrate	0.298	H	0.298	J-	HT2
BRA-APE-FD-05	Nitrogen Nitrate	0.132	HU	0.132	R	HT2
BRA-BRGWC-35S	Nitrogen Nitrate	0.132	HU	0.132	R	HT2
BRA-PZ-63I	Nitrogen Nitrate	0.754	H	0.754	J-	HT2

mg/L- milligram per liter
U-not detected at or above the MDL
H-analytical holding time exceeded

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The wet chemistry parameters were not detected in the method blanks at or above the MDLs, with the following exceptions.

683173 and 683387: Chloride (0.115 mg/L and 0.116 mg/L) was detected in the method blanks in batches 2664366 and 2665219, respectively. Therefore, the estimated concentrations of chloride in BRA-APBCD-EB-04, BRA-APBCD-FB-01, BRA-APE-EB-09 and BRA-APE-EB-10 were U qualified as not detected at or above the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APBCD-EB-04	Chloride	0.118	J	0.200	U	BL1
BRA-APBCD-FB-01	Chloride	0.118	J	0.200	U	BL1
BRA-APBCD-EB-09	Chloride	0.120	J	0.200	U	BL1
BRA-APBCD-EB-10	Chloride	0.117	J	0.200	U	BL1

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.4 Matrix Spike/Matrix Spike Duplicate

Five sample set specific MSs were reported for anions, using samples BRA-BRGWA-23S, BRA-PZ-52D, BRA-PZ-70I, BRA-BRGWC-32S and BRA-PZ-68D. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

683387: The recovery of nitrate as N in the MS using sample BRA-PZ-52D was low and outside of laboratory specified acceptance criteria. Therefore, the concentration for nitrate as N in sample BRA-PZ-52DPS was J- qualified as estimated.

Four sample set specific MS/MSDs were reported for sulfide, using samples BRA-BRGWC-38S, BRA-BRGWA-2S, BRA-BRGWC-25I and BRA-PZ-63I. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

Batch MSs and MS/MSD pairs were also reported for anions and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-52D	Nitrate	0.343	NA	0.343	J-	MS1

mg/L- milligram per liter
NA-not applicable

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Five sample set specific laboratory duplicates were reported for anions, using samples BRA-BRGWA-23S, BRA-PZ-52D, BRA-PZ-70I, BRA-BRGWC-32S and BRA-PZ-68D. The RPD results were within the laboratory specified acceptance criteria.

Four sample set specific laboratory duplicate was reported for TDS, using samples BRA-BRGWC-38S, BRA-PZ-44, BRA-BRGWC-52I and BRA-BRGWC-25I. The RPD results were within the laboratory specified acceptance criteria, with the following exception.

683169: The RPD of TDS for the laboratory duplicate using sample BRA-BRGWC-38S was high and outside of laboratory specified acceptance criteria. Therefore, the TDS concentration in sample BRA-BRGWC-38S was J qualified as estimated.

Batch laboratory duplicates were reported for TDS and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-38S	Total Dissolved Solids	370	NA	370	J	LD1

mg/L- milligram per liter
NA-not applicable

3.7 Field Blank

Four field blanks, BRA-APE-FB-07, BRA-APBCD-FB-01, BRA-APE-FB-08 and BRA-APBCD-FB-02 were collected with the sample set. Wet chemistry parameters were not detected in the field blanks at or above the MDLs, with the following exceptions.

683173: Chloride (0.118 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APBCD-FB-01. Since the concentration of chloride in field blank BRA-APBCD-FB-01 was U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

683387: Chloride (0.120 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APE-FB-08. Since the chloride concentration in the associated samples were U qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

683390: TDS (3.00 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APBCD-FB-02. Since the associated samples were detected at concentrations greater than ten times the field blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APE-EB-09	Chloride	0.120	J	0.200	U	BFL
BRA-APE-EB-10	Chloride	0.117	J	0.200	U	BFL

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APE-EB-09, BRA-APE-EB-10 and BRA-APBCD-EB-05 were collected with the sample set. Wet chemistry parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

683173 and 683387: Chloride (0.118 mg/L, 0.120 mg/L and 0.117 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in equipment blanks BRA-APBCD-EB-04, BRA-APE-EB-09 and BRA-APE-EB-10, respectively. Since the concentrations of chloride in equipment blanks BRA-APBCD-EB-04, BRA-APE-EB-09 and BRA-APE-EB-10

were U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

683173: Bicarbonate alkalinity as CaCO3 (0.900 mg/L) and total alkalinity as CaCO3 (0.900 mg/L) were detected at estimated concentrations greater than the MDL and less than the RL in equipment blank BRA-APBCD-EB-04. Since the associated samples were either nondetect or detected at concentrations greater than ten times the equipment blank concentrations of bicarbonate alkalinity as CaCO3 and total alkalinity as CaCO3, and based on technical and professional judgement, no qualifications were applied to the data.

683387: Nitrate (0.298 mg/L and 0.0376 mg/L) were detected at estimated concentrations greater than the MDL and less than the RL in equipment blanks BRA-APE-EB-09 and BRA-APE-EB-10, respectively. Therefore, for the associated samples the concentrations greater than the equipment blank concentrations and less than ten times the equipment blank concentrations were J+ qualified as estimated with high bias. Since the nitrate concentration for sample BRA-PZ-52D was also J-qualified due to matrix spike recovery outside the limits, the final qualification for the nitrate concentration for sample BRA-PZ-52D was J qualified as estimated.

Carbonate alkalinity as CaCO3 (2.80 mg/L) and total alkalinity as CaCO3 (6.40 mg/L) were detected in BRA-APE-EB-09 at concentrations greater than the RLs. Therefore, for the associated samples the concentrations greater than the equipment blank concentrations and less than ten times the equipment blank concentrations were J+ qualified as estimated with high bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-17S	Nitrogen Nitrate	0.248	NA	0.248	J+	BEL
BRA-BRGWC-34S	Nitrogen Nitrate	0.0378	J	0.100	U	BEL
BRA-BRGWC-36S	Nitrogen Nitrate	0.535	NA	0.535	J+	BEL
BRA-PZ-52D	Nitrogen Nitrate	0.343	NA	0.343	J	MS1|BEL
BRA-PZ-70I	Nitrogen Nitrate	0.113	NA	0.113	J+	BEL
BRA-APE-FD-05	Bicarbonate Alkalinity as CaCO3	51.4	NA	51.4	J+	BEH
BRA-APE-FD-05	Alkalinity Total as CaCO3	51.4	NA	51.4	J+	BEH
BRA-BRGWC-17S	Bicarbonate Alkalinity as CaCO3	62.9	NA	62.9	J+	BEH
BRA-BRGWC-17S	Alkalinity Total as CaCO3	62.9	NA	62.9	J+	BEH
BRA-BRGWC-33S	Bicarbonate Alkalinity as CaCO3	2.70	NA	2.70	J+	BEH

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-33S	Alkalinity Total as CaCO3	2.70	NA	2.70	J+	BEH
BRA-BRGWC-34S	Bicarbonate Alkalinity as CaCO3	32.8	NA	32.8	J+	BEH
BRA-BRGWC-34S	Alkalinity Total as CaCO3	32.8	NA	32.8	J+	BEH
BRA-BRGWC-35S	Bicarbonate Alkalinity as CaCO3	51.9	NA	51.9	J+	BEH
BRA-BRGWC-35S	Alkalinity Total as CaCO3	51.9	NA	51.9	J+	BEH
BRA-BRGWC-36S	Bicarbonate Alkalinity as CaCO3	20.8	NA	20.8	J+	BEH
BRA-BRGWC-36S	Alkalinity Total as CaCO3	20.8	NA	20.8	J+	BEH
BRA-PZ-70I	Bicarbonate Alkalinity as CaCO3	17.1	NA	17.1	J+	BEH
BRA-PZ-70I	Alkalinity Total as CaCO3	17.1	NA	17.1	J+	BEH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

3.9 Field Duplicate

Four duplicate samples, BRA-APE-FD-04, BRA-APBCD-FD-01, BRA-APE-FD-05 and BRA-APBCD-FD-02 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-PZ-13S, BRA-BRGWC-27I, BRA-BRGWC-35S and BRA-BRGWC-25I, respectively, with the following exceptions.

683169: Nitrate was detected in sample BRA-PZ-13S at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-04, resulting in a noncalculable RPD between the results, and the absolute difference between the field duplicate pair concentrations was greater than the RL. Therefore, the nitrate concentrations in the field duplicate pair were J qualified as estimated.

683173: Nitrate was not detected in field duplicate BRA-APBCD-FD-01 and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-27I, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/l)	Laboratory Flag	RPD	Validation Result (mg/l)	Validation Qualifier	Reason Code
BRA-APE-FD-04	Nitrogen Nitrate	0.0514	J	NC	0.0514	J	RPDF2
BRA-PZ-13S	Nitrogen Nitrate	0.260	NA		0.260	J	RPDF2

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NC-not calculable
NA-not applicable

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample duplicate
RPD - Relative percent difference

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Memorandum

Date:	17 February 2025
To:	Courtney Collins
From:	Kristoffer Henderson
CC:	Ashley Wilson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – GEL Laboratories, LLC Work Order 683468**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring ASD

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eight groundwater samples including one equipment blank, one field blank and one field duplicate samples collected 29 August 2024, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives.

The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03

Laboratory IDs	Client IDs
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I

The samples were received at 1.0 degrees Celsius (ºC), outside of the EPA Region 4 criteria of 4ºC $\pm$ 2ºC. Since the samples were received between 0-6ºC and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample BRA-PZ-50D. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

One field blank, BRA-APBCD-FB-03, was collected with the sample set. Metals were not detected in the field blank at or above the MDLs.

1.8 Equipment Blank

One equipment blanks, BRA-APBCD-EB-06, was collected with the sample set. Metals were not detected in the equipment blank at or above the MDLs, with the following exception.

Magnesium (0.0112 mg/L) was detected at an estimated concentrations greater than the MDL and less than the reporting limit (RL)in equipment blank BRA-APBCD-EB-06. Since the concentration of magnesium in the associated samples was greater than ten times the blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

1.9 Field Duplicate

One duplicate sample, BRA-APBCD-FD-03, was collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, BRA-BRGWC-50.

1.10 Serial Dilution

One sample set specific serial dilution was reported for metals using sample BRA-PZ-50D. The percent difference (%D) results were within the method specified acceptance criteria, with the following exception.

The %D of boron was high and outside the laboratory specified acceptance criteria. Therefore, the boron concentration for sample BRA-PZ-50D was J qualified as estimated.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank

- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS was reported using sample BRA-BRGWC-50. The recovery result was within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported using sample BRA-BRGWC-50. The RPD result was within the laboratory specified acceptance criteria.

2.7 Field Blank

One field blank, BRA-APBCD-FB-03, was collected with the sample set. Mercury was not detected in the field blank at or above the MDL.

2.8 Equipment Blank

One equipment blanks, BRA-APBCD-EB-06, was collected with the sample set. Mercury was not detected in the equipment blank at or above the MDL.

2.9 Field Duplicate

One duplicate sample, BRA-APBCD-FD-03, was collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, BRA-BRGWC-50.

2.10 Serial Dilution

One sample set specific serial dilution was performed using sample BRA-BRGWC-50. The %D result was within the method specified acceptance criteria.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

The laboratory noted that sample BRA-PZ-64I was manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the nitrate-N analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS was reported for anions, using sample BRA-PZ-60I. The recovery results were within the laboratory specified acceptance criteria.

One sample set specific MS/MSD was reported for sulfide, using sample BRA-PZ-50D. The recovery results were within the laboratory specified acceptance criteria.

Batch MSs and MS/MSD pairs were also reported for anions and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCS duplicate (LCSD) pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for anions, using sample BRA-PZ-60I. The RPD result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for TDS, using sample BRA-PZ-50D. The RPD of TDS was high and outside of laboratory specified acceptance criteria. Therefore, the TDS concentration in sample BRA-PZ-50D was J qualified as estimated.

Batch laboratory duplicates were reported for TDS and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-PZ-50D	Total Dissolved Solids	1490	NA	1490	J	LD1

mg/L- milligram per liter
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report.

**Reason codes are defined in Attachment 2 at the end of this report.

3.7 Field Blank

One field blank, BRA-APBCD-FB-03, was collected with the sample set. Wet chemistry parameters were not detected in the field blank at or above the MDLs.

3.8 Equipment Blank

One equipment blanks, BRA-APBCD-EB-06, was collected with the sample set. Wet chemistry parameters were not detected in the equipment blank at or above the MDLs.

3.9 Field Duplicate

One duplicate sample, BRA-APBCD-FD-03, was collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, BRA-BRGWC-50.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.

DQM Reason Code	Description
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit

DQM Reason Code	Description
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER

DQM Reason Code	Description
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT

DQM Reason Code	Description
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier

DQM Reason Code	Description
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 11, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683170

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683170001	BRA-BRGWC-38S	Ground Water	08/27/24 12:07	08/28/24 13:10
683170002	BRA-PZ-53D	Ground Water	08/27/24 14:00	08/28/24 13:10
683170003	BRA-PZ-13S	Ground Water	08/27/24 13:51	08/28/24 13:10
683170004	BRA-BRGWC-37S	Ground Water	08/27/24 16:41	08/28/24 13:10
683170005	BRA-APE-FB-07	Water	08/27/24 15:40	08/28/24 13:10
683170006	BRA-APE-FD-04	Ground Water	08/27/24 12:00	08/28/24 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	11-SEP-2024
EPA 903.1 Modified	10-SEP-2024
EPA 904.0/SW846 9320 Modified	10-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683170 GEL Work Order: 683170

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-38S
Sample ID: 683170001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.123	+/-1.52	2.81	+/-1.52	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.945	+/-1.58	2.81	+/-1.59		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.945	+/-0.408	0.453	+/-0.465	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	72.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-53D
Sample ID: 683170002
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.16	+/-1.19	1.75	+/-1.32	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.22	+/-1.28	1.75	+/-1.40		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.06	+/-0.454	0.452	+/-0.481	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	89.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-13S
Sample ID: 683170003
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.10	+/-1.37	1.78	+/-1.58	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.31	+/-1.42	1.78	+/-1.65		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.21	+/-0.388	0.283	+/-0.476	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	74.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-37S
Sample ID: 683170004
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.619	+/-1.30	2.26	+/-1.31	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.01	+/-1.41	2.26	+/-1.44		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.39	+/-0.556	0.627	+/-0.602	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	91.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FB-07 Project: GPCC00101
Sample ID: 683170005 Client ID: GPCC001
Matrix: WQ
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.510	+/-1.01	1.79	+/-1.01	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.838	+/-1.04	1.79	+/-1.05		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.328	+/-0.255	0.367	+/-0.266	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	83.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 683170006 Client ID: GPCC001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.683	+/-1.09	2.25	+/-1.09	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.62	+/-1.21	2.25	+/-1.24		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.62	+/-0.543	0.487	+/-0.607	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	77.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2664985

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683170001	BRA-BRGWC-38S
683170002	BRA-PZ-53D
683170003	BRA-PZ-13S
683170004	BRA-BRGWC-37S
683170005	BRA-APE-FB-07
683170006	BRA-APE-FD-04

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2664487

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683170001	BRA-BRGWC-38S
683170002	BRA-PZ-53D
683170003	BRA-PZ-13S
683170004	BRA-BRGWC-37S
683170005	BRA-APE-FB-07
683170006	BRA-APE-FD-04
1205838732	Method Blank (MB)
1205838733	683170001(BRA-BRGWC-38S) Sample Duplicate (DUP)
1205838734	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the

following exceptions.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205838733 (BRA-BRGWC-38SDUP)	Radium-228	RPD 226* (0.0%-100.0%) RER 2.06 (0-3)

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665880

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683170001	BRA-BRGWC-38S
683170002	BRA-PZ-53D
683170003	BRA-PZ-13S
683170004	BRA-BRGWC-37S
683170005	BRA-APE-FB-07
683170006	BRA-APE-FD-04
1205841769	Method Blank (MB)
1205841770	682900001(NonSDG) Sample Duplicate (DUP)
1205841771	682900001(NonSDG) Matrix Spike (MS)
1205841772	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205841771 (Non SDG 682900001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the

requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683170**

Report Date: September 11, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2664487										
QC1205838733 683170001 DUP										
Radium-228	U	-0.123		1.99	pCi/L	226*		(0% - 100%)	KP1	09/10/2411:58
	Uncert:	+/-1.52		+/-1.21						
	TPU:	+/-1.52		+/-1.31						
QC1205838734 LCS										
Radium-228	70.3			61.8	pCi/L		87.9	(75%-125%)	KP1	09/10/2411:58
	Uncert:			+/-4.28						
	TPU:			+/-16.6						
QC1205838732 MB										
Radium-228			U	0.876	pCi/L				KP1	09/10/2411:58
	Uncert:			+/-1.30						
	TPU:			+/-1.32						
Rad Ra-226										
Batch 2665880										
QC1205841770 682900001 DUP										
Radium-226		1.22		1.32	pCi/L	7.74		(0% - 100%)	MJ2	09/10/2411:07
	Uncert:	+/-0.439		+/-0.478						
	TPU:	+/-0.495		+/-0.515						
QC1205841772 LCS										
Radium-226	27.1			29.6	pCi/L		109	(75%-125%)	MJ2	09/10/2411:07
	Uncert:			+/-2.01						
	TPU:			+/-7.13						
QC1205841769 MB										
Radium-226			U	0.000	pCi/L				MJ2	09/10/2411:07
	Uncert:			+/-0.208						
	TPU:			+/-0.208						
QC1205841771 682900001 MS										
Radium-226	134	1.22		117	pCi/L		86.4	(75%-125%)	MJ2	09/10/2411:07
	Uncert:	+/-0.439		+/-8.08						
	TPU:	+/-0.495		+/-27.4						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683170**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683170 | 683169

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble / D. Johnson ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-38S	08/27/24	1207	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- P2-53D	08/27/24	1400	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- P2-13S	08/27/24	1351	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-37S	08/27/24	1641	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-07	08/27/24	1540	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-04	08/27/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Gill	8-28-24	0827		8/28/24	0827
2					8/28/24	1310
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683170 683169
683173 683174
683176 683177

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			GWA-2I metals container has no label
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no GEL label

PM (or PMA) review: Initials HTB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 11 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683174

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683174001	BRA-BRGWA-23S	Ground Water	08/27/24 12:30	08/28/24 13:10
683174002	BRA-APBCD-FB-01	Water	08/27/24 15:25	08/28/24 13:10
683174003	BRA-BRGWC-29I	Ground Water	08/27/24 15:45	08/28/24 13:10
683174004	BRA-BRGWC-27I	Ground Water	08/27/24 15:37	08/28/24 13:10
683174005	BRA-PZ-74I	Ground Water	08/27/24 12:12	08/28/24 13:10
683174006	BRA-PZ-75I	Ground Water	08/27/24 14:00	08/28/24 13:10
683174007	BRA-PZ-44	Ground Water	08/27/24 17:21	08/28/24 13:10
683174008	BRA-APBCD-FD-01	Ground Water	08/27/24 12:00	08/28/24 13:10
683174009	BRA-APBCD-EB-04	Water	08/27/24 17:45	08/28/24 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	12-SEP-2024
EPA 903.1 Modified	10-SEP-2024
EPA 904.0/SW846 9320 Modified	10-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683174 GEL Work Order: 683174

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-23S
Sample ID: 683174001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.435	+/-0.765	1.36	+/-0.773	3.00	pCi/L			KP1	09/10/24	0932	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.43	+/-0.914	1.36	+/-1.01		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.00	+/-0.500	0.294	+/-0.642	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	82.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 683174002 Client ID: GPCC001
Matrix: WQ
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.392	+/-0.811	1.47	+/-0.817	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.622	+/-0.844	1.47	+/-0.851		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.230	+/-0.232	0.363	+/-0.237	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	76.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-29I
Sample ID: 683174003
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.835	+/-0.837	1.37	+/-0.863	3.00	pCi/L			KP1	09/10/24	0932	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.39	+/-0.975	1.37	+/-1.04		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.56	+/-0.501	0.436	+/-0.581	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	82.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-27I
Sample ID: 683174004
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.664	+/-0.802	1.35	+/-0.819	3.00	pCi/L			KP1	09/10/24	0932	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.41	+/-0.960	1.35	+/-1.03		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.75	+/-0.527	0.304	+/-0.632	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	85.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-74I
Sample ID: 683174005
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.685	+/-0.921	1.58	+/-0.938	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.997	+/-0.965	1.58	+/-0.982		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.312	+/-0.287	0.449	+/-0.291	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	77.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-75I
Sample ID: 683174006
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.10	+/-1.17	1.93	+/-1.20	3.00	pCi/L			KP1	09/10/24	0929	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.81	+/-1.29	1.93	+/-1.36		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.71	+/-0.544	0.497	+/-0.627	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	63	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 683174007 Client ID: GPCC001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.44	+/-1.00	1.52	+/-1.07	3.00	pCi/L			KP1	09/10/24	0929	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.84	+/-1.10	1.52	+/-1.20		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.40	+/-0.450	0.447	+/-0.538	1.00	pCi/L			MJ2	09/10/24	1032	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	80.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 683174008 Client ID: GPCC001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.798	+/-1.16	2.00	+/-1.17	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.76	+/-1.29	2.00	+/-1.34		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.96	+/-0.579	0.474	+/-0.650	1.00	pCi/L			MJ2	09/10/24	1032	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	62.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 683174009 Client ID: GPCC001
Matrix: WQ
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.127	+/-0.801	1.52	+/-0.801	3.00	pCi/L			KP1	09/10/24	0929	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.487	+/-0.871	1.52	+/-0.873		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.360	+/-0.342	0.536	+/-0.346	1.00	pCi/L			MJ2	09/10/24	1032	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	82.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2664986

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683174001	BRA-BRGWA-23S
683174002	BRA-APBCD-FB-01
683174003	BRA-BRGWC-29I
683174004	BRA-BRGWC-27I
683174005	BRA-PZ-74I
683174006	BRA-PZ-75I
683174007	BRA-PZ-44
683174008	BRA-APBCD-FD-01
683174009	BRA-APBCD-EB-04

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2664488

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683174001	BRA-BRGWA-23S
683174002	BRA-APBCD-FB-01
683174003	BRA-BRGWC-29I
683174004	BRA-BRGWC-27I
683174005	BRA-PZ-74I
683174006	BRA-PZ-75I
683174007	BRA-PZ-44
683174008	BRA-APBCD-FD-01
683174009	BRA-APBCD-EB-04
1205838735	Method Blank (MB)
1205838736	683174001(BRA-BRGWA-23S) Sample Duplicate (DUP)
1205838737	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665880

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683174001	BRA-BRGWA-23S
683174002	BRA-APBCD-FB-01
683174003	BRA-BRGWC-29I
683174004	BRA-BRGWC-27I
683174005	BRA-PZ-74I
683174006	BRA-PZ-75I
683174007	BRA-PZ-44
683174008	BRA-APBCD-FD-01
683174009	BRA-APBCD-EB-04
1205841769	Method Blank (MB)
1205841770	682900001(NonSDG) Sample Duplicate (DUP)
1205841771	682900001(NonSDG) Matrix Spike (MS)
1205841772	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205841771 (Non SDG 682900001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683174**

Report Date: September 12, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2664488										
QC1205838736 683174001 DUP										
Radium-228	U	0.435	U	0.416	pCi/L	0		N/A	KP1	09/10/2409:34
	Uncert:	+/-0.765		+/-0.841						
	TPU:	+/-0.773		+/-0.848						
QC1205838737 LCS										
Radium-228	42.1			38.5	pCi/L		91.5	(75%-125%)	KP1	09/10/2409:34
	Uncert:			+/-2.53						
	TPU:			+/-10.1						
QC1205838735 MB										
Radium-228			U	0.780	pCi/L				KP1	09/10/2409:34
	Uncert:			+/-0.723						
	TPU:			+/-0.750						
Rad Ra-226										
Batch 2665880										
QC1205841770 682900001 DUP										
Radium-226		1.22		1.32	pCi/L	7.74		(0% - 100%)	MJ2	09/10/2411:07
	Uncert:	+/-0.439		+/-0.478						
	TPU:	+/-0.495		+/-0.515						
QC1205841772 LCS										
Radium-226	27.1			29.6	pCi/L		109	(75%-125%)	MJ2	09/10/2411:07
	Uncert:			+/-2.01						
	TPU:			+/-7.13						
QC1205841769 MB										
Radium-226			U	0.000	pCi/L				MJ2	09/10/2411:07
	Uncert:			+/-0.208						
	TPU:			+/-0.208						
QC1205841771 682900001 MS										
Radium-226	134	1.22		117	pCi/L		86.4	(75%-125%)	MJ2	09/10/2411:07
	Uncert:	+/-0.439		+/-8.08						
	TPU:	+/-0.495		+/-27.4						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683174**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683174 | 683173

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Benyford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWA-23S	08/27/24	1230	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FB-01	08/27/24	1525	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- BRGWC-29I	08/27/24	1545	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-27I	08/27/24	1537	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-74I	08/27/24	1212	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-75I	08/27/24	1400	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-44	08/27/24	1721	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-01	08/27/24	—	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-EB-04	08/27/24	1745	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/28/24	0827		8/28/24	0827
2					8/28/24	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683170 683169
683173 683174
683176 683177

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?		✓		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?		✓		GWA-2E metals container has no label
13	COC form is properly signed in relinquished/received sections?		✓		Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Rchem
Work Order: 683177

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The radium sample containers for sample ID "BRA-BRGWA-2S" did not have a label or sample identifiers. he radium sample containers for sample ID "BRA-BRGWA-5I" did not have a label or sample identifiers*683177001(BRA-BRGWA-2S), 683177004(BRA-BRGWA-5I)*. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683177001	BRA-BRGWA-2S	Ground Water	08/27/24 09:45	08/28/24 08:27
683177002	BRA-BRGWA-5S	Ground Water	08/27/24 09:50	08/28/24 08:27
683177003	BRA-BRGWA-2I	Ground Water	08/27/24 10:08	08/28/24 08:27
683177004	BRA-BRGWA-5I	Ground Water	08/27/24 09:47	08/28/24 08:27
683177005	BRA-BRGWA-6S	Ground Water	08/27/24 11:35	08/28/24 08:27

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	12-SEP-2024
EPA 903.1 Modified	12-SEP-2024
EPA 904.0/SW846 9320 Modified	10-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683177 GEL Work Order: 683177

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-2S
Sample ID: 683177001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.901	+/-0.902	1.48	+/-0.931	3.00	pCi/L			KP1	09/10/24	0933	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.40	+/-0.964	1.48	+/-0.995		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.501	+/-0.340	0.383	+/-0.351	1.00	pCi/L			MJ2	09/12/24	0906	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	86.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-5S
Sample ID: 683177002
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.371	+/-0.757	1.60	+/-0.757	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.236	+/-0.788	1.60	+/-0.790		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.236	+/-0.218	0.301	+/-0.224	1.00	pCi/L			MJ2	09/12/24	0906	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	80.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-2I
Sample ID: 683177003
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.124	+/-0.859	1.72	+/-0.859	3.00	pCi/L			KP1	09/10/24	0933	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.864	+/-0.954	1.72	+/-0.965		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.864	+/-0.415	0.414	+/-0.438	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	76.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-5I
Sample ID: 683177004
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.146	+/-1.00	2.02	+/-1.00	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.62	+/-1.32	2.02	+/-1.46		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.62	+/-0.853	0.622	+/-1.06	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	67.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-6S
Sample ID: 683177005
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.11	+/-1.02	1.64	+/-1.05	3.00	pCi/L			KP1	09/10/24	0933	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.64	+/-1.07	1.64	+/-1.12		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.539	+/-0.346	0.375	+/-0.368	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	82	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2671139

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683177001	BRA-BRGWA-2S
683177002	BRA-BRGWA-5S
683177003	BRA-BRGWA-2I
683177004	BRA-BRGWA-5I
683177005	BRA-BRGWA-6S

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2664488

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683177001	BRA-BRGWA-2S
683177002	BRA-BRGWA-5S
683177003	BRA-BRGWA-2I
683177004	BRA-BRGWA-5I
683177005	BRA-BRGWA-6S
1205838735	Method Blank (MB)
1205838736	683174001(BRA-BRGWA-23S) Sample Duplicate (DUP)
1205838737	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665882

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683177001	BRA-BRGWA-2S
683177002	BRA-BRGWA-5S
683177003	BRA-BRGWA-2I
683177004	BRA-BRGWA-5I
683177005	BRA-BRGWA-6S
1205841780	Method Blank (MB)
1205841781	683177001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205841782	683177001(BRA-BRGWA-2S) Matrix Spike (MS)
1205841783	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205841780 (MB)	Radium-226	Result: 0.497 pCi/L > MDA: 0.471 pCi/L <= RDL: 1.00 pCi/L

Miscellaneous Information

Additional Comments
The matrix spike, 1205841782 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683177**

Report Date: September 12, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2664488										
QC1205838736 683174001 DUP										
Radium-228	U	0.435	U	0.416	pCi/L	0		N/A	KP1	09/10/2409:34
	Uncert:	+/-0.765		+/-0.841						
	TPU:	+/-0.773		+/-0.848						
QC1205838737 LCS										
Radium-228	42.1			38.5	pCi/L		91.5	(75%-125%)	KP1	09/10/2409:34
	Uncert:			+/-2.53						
	TPU:			+/-10.1						
QC1205838735 MB										
Radium-228			U	0.780	pCi/L				KP1	09/10/2409:34
	Uncert:			+/-0.723						
	TPU:			+/-0.750						
Rad Ra-226										
Batch 2665882										
QC1205841781 683177001 DUP										
Radium-226		0.501		0.598	pCi/L	17.6		(0% - 100%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-0.365						
	TPU:	+/-0.351		+/-0.384						
QC1205841783 LCS										
Radium-226	27.1			27.2	pCi/L		100	(75%-125%)	MJ2	09/12/2410:12
	Uncert:			+/-2.14						
	TPU:			+/-4.87						
QC1205841780 MB										
Radium-226				0.497	pCi/L				MJ2	09/12/2410:12
	Uncert:			+/-0.343						
	TPU:			+/-0.360						
QC1205841782 683177001 MS										
Radium-226	124	0.501		110	pCi/L		88.3	(75%-125%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-8.62						
	TPU:	+/-0.351		+/-22.9						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683177**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683177 | 683176

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC

gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Berisford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWA-2S	08/27/24	0945	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5S	08/27/24	0950	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-2I	08/27/24	1008	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5I	08/27/24	0947	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-6S	08/27/24	1135	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/28/24	0827		8/28/24	0927
2					8/29/24	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683170 683169
683173 683174
683176 683177

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			GWA-2E metals container has no label
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic ILs in BRA-BRGWASA kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HTB Date AUG 29 2024 Page 1 of 1

RE: Sample Delivery 8/28: Plant Branch Ash Ponds Bottle Kit Request (2nd 2024 Event)

Betsy McDaniel <betsy.mcdaniel@atlcc.net>

Wed 8/28/2024 10:07 AM

To:Alaina Pinnick <Alaina.Pinnick@gel.com>;Team Pinnick <Team.Pinnick@gel.com>
Cc:Joju Abraham <jabraham@southernco.com>;Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>;Midkiff, Laura B. <lbmidkif@southernco.com>;Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>;Noelia Ruiz <NSMUSKUS@SOUTHERNCO.COM>;Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>;Mr. Whitney Law <wlaw@Geosyntec.com>;Joseph Ivanowski <JIvanowski@Geosyntec.com>;Chris Parker <chris.parker@atlcc.net>;Monte Jones <monte.jones@atlcc.net>;Matt Malone <matt.malone@atlcc.net>;CCollins@Geosyntec.com <ccollins@geosyntec.com>;Jordan Berisford <jordan.berisford@atlcc.net>;Taylor Goble <taylor.goble@atlcc.net>;Dever Johnson <dever.johnson@atlcc.net>; Joshua May <joshua.may@atlcc.net>

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina:

I was just notified by one of our field technicians that the bottle set for Upgradient BRA-BRGWA-5S did not have labels for the rads containers. The TDS, anions, and metals containers do have labels, and all 8 containers are packaged together in the same baggie. Those 3 rads containers are the only ones in today's delivery that do not have labels. Please notify us, if there is any confusion about matching up sample volumes with the correct IDs.
Thank you,

Betsy McDaniel
Atlantic Coast Consulting, Inc.

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Wednesday, August 28, 2024 9:01 AM
To: Betsy McDaniel <betsy.mcdaniel@atlcc.net>; Team Pinnick <Team.Pinnick@gel.com>
Cc: Joju Abraham <jabraham@southernco.com>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Noelia Ruiz <NSMUSKUS@SOUTHERNCO.COM>; Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>; Mr. Whitney Law <wlaw@Geosyntec.com>; Joseph Ivanowski <JIvanowski@Geosyntec.com>; Chris Parker <chris.parker@atlcc.net>; Monte Jones <monte.jones@atlcc.net>; Matt Malone <matt.malone@atlcc.net>; CCollins@Geosyntec.com; Jordan Berisford <jordan.berisford@atlcc.net>; Taylor Goble <taylor.goble@atlcc.net>
Subject: Re: Sample Delivery 8/28: Plant Branch Ash Ponds Bottle Kit Request (2nd 2024 Event)

Good morning,

Thank you for sending these, we will be on the lookout for the courier.

Thank you,

Alaina Pinnick
Project Manager

2040 Savage Road, Charleston, SC 29407

Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Alaina.Pinnick@gel.com | Website: www.gel.com
Analytical Testing

From: Betsy McDaniel <betsy.mcdaniel@atlcc.net>
Sent: Wednesday, August 28, 2024 8:43 AM
To: Alaina Pinnick <Alaina.Pinnick@gel.com>; Team Pinnick <Team.Pinnick@gel.com>
Cc: Joju Abraham <jabraham@southernco.com>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Noelia Ruiz <NSMUSKUS@SOUTHERNCO.COM>; Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>; Mr. Whitney Law <wlaw@Geosyntec.com>; Joseph Ivanowski <JIvanowski@Geosyntec.com>; Chris Parker <chris.parker@atlcc.net>; Monte Jones <monte.jones@atlcc.net>; Matt Malone <matt.malone@atlcc.net>; CCollins@Geosyntec.com <ccollins@geosyntec.com>; Jordan Berisford <jordan.berisford@atlcc.net>; Taylor Goble <taylor.goble@atlcc.net>
Subject: Sample Delivery 8/28: Plant Branch Ash Ponds Bottle Kit Request (2nd 2024 Event)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina:

The first set of Plant Branch Ash Pond 2nd 2024 event samples are being delivered to your Charleston lab today (the courier picked them up this morning). Please set up separate work orders for B/C/D vs. E vs. Upgradient as per the COC pages.
I've attached the COC for your information. Note: all samples get short-hold nitrate analysis.

Betsy McDaniel
Atlantic Coast Consulting, Inc.

From: Betsy McDaniel
Sent: Tuesday, July 9, 2024 8:55 AM
To: Team Trent <team.trent@gel.com>; Erin Trent <Erin.Trent@gel.com>
Cc: Joju Abraham <jabraham@southernco.com>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Noelia Ruiz <NSMUSKUS@SOUTHERNCO.COM>; Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>; Mr. Whitney Law <wlaw@Geosyntec.com>; Joseph Ivanowski <JIvanowski@Geosyntec.com>; Chris Parker <chris.parker@atlcc.net>; Monte Jones <monte.jones@atlcc.net>; Matt Malone <matt.malone@atlcc.net>; CCollins@Geosyntec.com
Subject: Plant Branch Ash Ponds Bottle Kit Request (2nd 2024 Event)

Erin & Team:

The 2nd 2024 event for **Plant Branch-Ash Ponds B/C/D** and **E** is scheduled for the week of **8/26/2024**. Please find attached the bottle order spreadsheet and template COC. **Please have the coolers delivered to our new Alpharetta office by Tuesday 8/13/2024.** Southern Company has approved us getting the ASTM type I water from our 3rd party source.
Geosyntec has requested the major ions analytical for this event as well as the semi-annual scope.
We will coordinate for the samples to be delivered to your Charleston lab after collection; we're aware that the samples getting nitrate analysis will need to be delivered as soon as possible due to the 48-hour holding time. I will email you the updated field documentation and let you know when samples are underway to the lab.
Let Courtney Collins or me know, if you have any questions or concerns.

Betsy
McDaniel
Atlantic Coast Consulting, Inc.

Our Work Helps Produce a Cleaner Environment for All

11545 Wills Road, Ste 100, Alpharetta, GA 30009

770-594-5998 678-448-8459
www.atlcc.net

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List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 30, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683389

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683389001	BRA-BRGWC-17S	Ground Water	08/28/24 12:13	08/29/24 13:10
683389002	BRA-BRGWC-33S	Ground Water	08/28/24 14:22	08/29/24 13:10
683389003	BRA-BRGWC-34S	Ground Water	08/28/24 12:43	08/29/24 13:10
683389004	BRA-BRGWC-35S	Ground Water	08/28/24 11:27	08/29/24 13:10
683389005	BRA-BRGWC-36S	Ground Water	08/28/24 10:08	08/29/24 13:10
683389006	BRA-PZ-52D	Ground Water	08/28/24 13:44	08/29/24 13:10
683389007	BRA-PZ-70I	Ground Water	08/28/24 10:06	08/29/24 13:10
683389008	BRA-APE-FD-05	Ground Water	08/28/24 12:00	08/29/24 13:10
683389009	BRA-APE-FB-08	Water	08/28/24 14:30	08/29/24 13:10
683389010	BRA-APE-EB-09	Water	08/28/24 11:00	08/29/24 13:10
683389011	BRA-APE-EB-10	Water	08/28/24 13:10	08/29/24 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	30-SEP-2024
EPA 903.1 Modified	26-SEP-2024
EPA 904.0/SW846 9320 Modified	26-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683389 GEL Work Order: 683389

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-17S
Sample ID: 683389001
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.20	+/-1.29	2.15	+/-1.32	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.78	+/-1.36	2.15	+/-1.39		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.571	+/-0.423	0.625	+/-0.433	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-33S
Sample ID: 683389002
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.73	+/-0.927	1.29	+/-1.03	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.68	+/-1.06	1.29	+/-1.16		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.947	+/-0.508	0.649	+/-0.538	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	86	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-34S
Sample ID: 683389003
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.84	+/-1.50	2.26	+/-1.67	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.15	+/-1.54	2.26	+/-1.71		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.301	+/-0.367	0.616	+/-0.372	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-35S
Sample ID: 683389004
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.13	+/-0.921	1.46	+/-0.966	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.36	+/-0.989	1.46	+/-1.03		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.235	+/-0.360	0.633	+/-0.364	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	85.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-36S
Sample ID: 683389005
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.47	+/-0.931	1.36	+/-1.00	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.45	+/-1.06	1.36	+/-1.14		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.981	+/-0.506	0.571	+/-0.531	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-52D
Sample ID: 683389006
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.35	+/-1.57	2.11	+/-1.92	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.34	+/-1.63	2.11	+/-1.98		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.984	+/-0.445	0.507	+/-0.483	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-70I
Sample ID: 683389007
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.350	+/-1.27	2.27	+/-1.27	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.25	+/-1.34	2.27	+/-1.35		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.899	+/-0.438	0.382	+/-0.468	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	79.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 683389008 Client ID: GPCC001
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.05	+/-0.983	1.60	+/-1.02	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.24	+/-1.05	1.60	+/-1.08		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.184	+/-0.361	0.663	+/-0.362	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	80.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 683389009 Client ID: GPCC001
Matrix: WQ
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.42	+/-1.04	1.33	+/-1.21	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.02	+/-1.09	1.33	+/-1.26		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.595	+/-0.333	0.325	+/-0.348	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	83	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-EB-09 Project: GPCC00101
Sample ID: 683389010 Client ID: GPCC001
Matrix: WQ
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.23	+/-1.57	2.35	+/-1.78	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.35	+/-1.58	2.35	+/-1.79		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.115	+/-0.198	0.366	+/-0.199	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-EB-10
Sample ID: 683389011
Matrix: WQ
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.701	+/-1.18	2.06	+/-1.20	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.21	+/-1.24	2.06	+/-1.26		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.505	+/-0.371	0.484	+/-0.382	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	78.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2670884

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683389001	BRA-BRGWC-17S
683389002	BRA-BRGWC-33S
683389003	BRA-BRGWC-34S
683389004	BRA-BRGWC-35S
683389005	BRA-BRGWC-36S
683389006	BRA-PZ-52D
683389007	BRA-PZ-70I
683389008	BRA-APE-FD-05
683389009	BRA-APE-FB-08
683389010	BRA-APE-EB-09
683389011	BRA-APE-EB-10

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665605

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683389001	BRA-BRGWC-17S
683389002	BRA-BRGWC-33S
683389003	BRA-BRGWC-34S
683389004	BRA-BRGWC-35S
683389005	BRA-BRGWC-36S
683389006	BRA-PZ-52D
683389007	BRA-PZ-70I
683389008	BRA-APE-FD-05
683389009	BRA-APE-FB-08
683389010	BRA-APE-EB-09
683389011	BRA-APE-EB-10

1205841102	Method Blank (MB)
1205841103	683389001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205841104	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665908

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683389001	BRA-BRGWC-17S
683389002	BRA-BRGWC-33S
683389003	BRA-BRGWC-34S
683389004	BRA-BRGWC-35S
683389005	BRA-BRGWC-36S
683389006	BRA-PZ-52D
683389007	BRA-PZ-70I
683389008	BRA-APE-FD-05
683389009	BRA-APE-FB-08
683389010	BRA-APE-EB-09
683389011	BRA-APE-EB-10
1205841869	Method Blank (MB)
1205841870	683389001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205841871	683389001(BRA-BRGWC-17S) Matrix Spike (MS)
1205841872	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205841871 (BRA-BRGWC-17SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683389**

Report Date: September 30, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665605										
QC1205841103 683389001 DUP										
Radium-228	U	1.20		1.84	pCi/L	41.9		(0% - 100%)	KP1	09/26/2413:00
	Uncert:	+/-1.29		+/-1.20						
	TPU:	+/-1.32		+/-1.29						
QC1205841104 LCS										
Radium-228	70.1			78.4	pCi/L		112	(75%-125%)	KP1	09/26/2413:00
	Uncert:			+/-5.07						
	TPU:			+/-20.8						
QC1205841102 MB										
Radium-228			U	0.775	pCi/L				KP1	09/26/2413:00
	Uncert:			+/-0.951						
	TPU:			+/-0.971						
Rad Ra-226										
Batch 2665908										
QC1205841870 683389001 DUP										
Radium-226	U	0.571		0.789	pCi/L	32		(0% - 100%)	MJ2	09/26/2409:24
	Uncert:	+/-0.423		+/-0.344						
	TPU:	+/-0.433		+/-0.367						
QC1205841872 LCS										
Radium-226	27.1			27.1	pCi/L		100	(75%-125%)	MJ2	09/26/2409:24
	Uncert:			+/-1.98						
	TPU:			+/-6.48						
QC1205841869 MB										
Radium-226			U	0.203	pCi/L				MJ2	09/26/2409:24
	Uncert:			+/-0.264						
	TPU:			+/-0.267						
QC1205841871 683389001 MS										
Radium-226	132 U	0.571		133	pCi/L		101	(75%-125%)	MJ2	09/26/2409:24
	Uncert:	+/-0.423		+/-11.2						
	TPU:	+/-0.433		+/-22.3						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683389**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683387/683389

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC

gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble D. Johnson ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb. & Bicarb Alk. SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
											NI	NI		
BRA- BRGWC-175	08/28/24	1213	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-335	08/28/24	1422	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-345	08/28/24	1243	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-355	08/28/24	1127	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-365	08/28/24	1008	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-52D	08/28/24	1344	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-70I	08/28/24	1006	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-05	08/28/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-08	08/28/24	1430	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-EB-09	08/28/24	1100	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	8-29-24	0822		8/29/24	0822
2					8/29/24	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble D. Johnson ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- APE-EB-10	08/28/24	1310	G	N	WG WQ	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	8-29-24	0822		8/29/24	0822
2				Cristina Lon	8/29/24	1310
3						

TAT Requested: Normal: _x_ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683390/683391 AP

683387/683389

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 0° 3 - 0° 5 - 8° 2 - 0° 4 - 0° 6 - 1°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with cooler
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 30 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 30, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683391

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683391001	BRA-BRGWC-30I	Ground Water	08/28/24 13:05	08/29/24 13:10
683391002	BRA-BRGWC-47	Ground Water	08/28/24 15:38	08/29/24 13:10
683391003	BRA-APBCD-FB-02	Water	08/28/24 16:30	08/29/24 13:10
683391004	BRA-BRGWC-52I	Ground Water	08/28/24 16:32	08/29/24 13:10
683391005	BRA-BRGWC-32S	Ground Water	08/28/24 16:27	08/29/24 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	30-SEP-2024
EPA 903.1 Modified	26-SEP-2024
EPA 904.0/SW846 9320 Modified	26-SEP-2024
EPA 904.0/SW846 9320 Modified	28-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683391 GEL Work Order: 683391

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-30I
Sample ID: 683391001
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.07	+/-1.12	1.34	+/-1.36	3.00	pCi/L			KP1	09/26/24	1301	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.82	+/-1.18	1.34	+/-1.43		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.752	+/-0.390	0.463	+/-0.425	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 683391002 Client ID: GPCC001
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.877	+/-1.48	2.55	+/-1.49	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.32	+/-1.52	2.55	+/-1.54		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.438	+/-0.370	0.539	+/-0.384	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 683391003 Client ID: GPCC001
Matrix: WQ
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.86	+/-1.63	2.51	+/-1.79	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.54	+/-1.67	2.51	+/-1.84		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.673	+/-0.359	0.413	+/-0.393	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	73.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-52I
Sample ID: 683391004
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		11.8	+/-2.55	2.72	+/-3.96	3.00	pCi/L			KP1	09/28/24	0840	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		14.7	+/-2.65	2.72	+/-4.05		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.87	+/-0.719	0.348	+/-0.837	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	68.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-32S
Sample ID: 683391005
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0875	+/-0.779	1.57	+/-0.779	3.00	pCi/L			KP1	09/26/24	1449	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.737	+/-0.878	1.57	+/-0.885		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.737	+/-0.404	0.442	+/-0.420	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	87.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2670884

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683391001	BRA-BRGWC-30I
683391002	BRA-BRGWC-47
683391003	BRA-APBCD-FB-02
683391004	BRA-BRGWC-52I
683391005	BRA-BRGWC-32S

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665605

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683391001	BRA-BRGWC-30I
683391002	BRA-BRGWC-47
683391003	BRA-APBCD-FB-02
683391004	BRA-BRGWC-52I
683391005	BRA-BRGWC-32S
1205841102	Method Blank (MB)
1205841103	683389001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205841104	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 683391004 (BRA-BRGWC-52I) was re-eluted and recounted to verify sample result. The recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665908

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683391001	BRA-BRGWC-30I
683391002	BRA-BRGWC-47
683391003	BRA-APBCD-FB-02
683391004	BRA-BRGWC-52I
683391005	BRA-BRGWC-32S
1205841869	Method Blank (MB)
1205841870	683389001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205841871	683389001(BRA-BRGWC-17S) Matrix Spike (MS)
1205841872	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205841871 (BRA-BRGWC-17SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683391**

Report Date: September 30, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665605										
QC1205841103 683389001 DUP										
Radium-228	U	1.20		1.84	pCi/L	41.9		(0% - 100%)	KP1	09/26/2413:00
	Uncert:	+/-1.29		+/-1.20						
	TPU:	+/-1.32		+/-1.29						
QC1205841104 LCS										
Radium-228	70.1			78.4	pCi/L		112	(75%-125%)	KP1	09/26/2413:00
	Uncert:			+/-5.07						
	TPU:			+/-20.8						
QC1205841102 MB										
Radium-228			U	0.775	pCi/L				KP1	09/26/2413:00
	Uncert:			+/-0.951						
	TPU:			+/-0.971						
Rad Ra-226										
Batch 2665908										
QC1205841870 683389001 DUP										
Radium-226	U	0.571		0.789	pCi/L	32		(0% - 100%)	MJ2	09/26/2409:24
	Uncert:	+/-0.423		+/-0.344						
	TPU:	+/-0.433		+/-0.367						
QC1205841872 LCS										
Radium-226	27.1			27.1	pCi/L		100	(75%-125%)	MJ2	09/26/2409:24
	Uncert:			+/-1.98						
	TPU:			+/-6.48						
QC1205841869 MB										
Radium-226			U	0.203	pCi/L				MJ2	09/26/2409:24
	Uncert:			+/-0.264						
	TPU:			+/-0.267						
QC1205841871 683389001 MS										
Radium-226	132 U	0.571		133	pCi/L		101	(75%-125%)	MJ2	09/26/2409:24
	Uncert:	+/-0.423		+/-11.2						
	TPU:	+/-0.433		+/-22.3						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683391**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683390/683391

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Rochford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-30I	08/28/24	1305	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-47	08/28/24	1538	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FB-02	08/28/24	1630	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- BRGWC-52I	08/28/24	1632	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-32S	08/28/24	1627	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/29/24	0822	1	8/29/24	0822
2			2	8/29/24	1310
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ○ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683390/683391 AP

683387/683389

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 0° 3 - 0° 5 - 8° 2 - 0° 4 - 0° 6 - 1°

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with cooler
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓		✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 30 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 16, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683474

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683474001	BRA-BRGWC-45	Ground Water	08/29/24 09:55	08/30/24 08:30
683474002	BRA-APBCD-EB-05	Water	08/29/24 10:25	08/30/24 08:30
683474003	BRA-APBCD-FD-02	Ground Water	08/29/24 12:00	08/30/24 08:30
683474004	BRA-BRGWC-25I	Ground Water	08/29/24 10:17	08/30/24 08:30
683474005	BRA-PZ-68D	Ground Water	08/29/24 09:58	08/30/24 08:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	16-SEP-2024
EPA 903.1 Modified	12-SEP-2024
EPA 904.0/SW846 9320 Modified	12-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683474 GEL Work Order: 683474

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-45
Sample ID: 683474001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.963	+/-0.939	1.53	+/-0.971	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.71	+/-1.00	1.53	+/-1.05		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.752	+/-0.355	0.303	+/-0.389	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	74	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 683474002 Client ID: GPCC001
Matrix: WQ
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.377	+/-0.720	1.29	+/-0.726	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.808	+/-0.786	1.29	+/-0.795		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.430	+/-0.316	0.412	+/-0.324	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	87.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 683474003 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.653	+/-0.868	1.49	+/-0.883	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.95	+/-1.22	1.49	+/-1.42		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.30	+/-0.857	0.762	+/-1.12	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	78.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-25I
Sample ID: 683474004
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.34	+/-1.11	1.75	+/-1.16	3.00	pCi/L			KP1	09/12/24	0749	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.24	+/-1.50	1.75	+/-1.76		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.90	+/-1.01	0.621	+/-1.33	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	71.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-68D
Sample ID: 683474005
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.638	+/-0.797	1.35	+/-0.813	3.00	pCi/L			KP1	09/12/24	0736	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.43	+/-1.24	1.35	+/-1.44		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.79	+/-0.951	0.561	+/-1.19	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	90	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2670865

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683474001	BRA-BRGWC-45
683474002	BRA-APBCD-EB-05
683474003	BRA-APBCD-FD-02
683474004	BRA-BRGWC-25I
683474005	BRA-PZ-68D

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665594

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683474001	BRA-BRGWC-45
683474002	BRA-APBCD-EB-05
683474003	BRA-APBCD-FD-02
683474004	BRA-BRGWC-25I
683474005	BRA-PZ-68D
1205841081	Method Blank (MB)
1205841082	683474001(BRA-BRGWC-45) Sample Duplicate (DUP)
1205841083	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665882

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683474001	BRA-BRGWC-45
683474002	BRA-APBCD-EB-05
683474003	BRA-APBCD-FD-02
683474004	BRA-BRGWC-25I
683474005	BRA-PZ-68D
1205841780	Method Blank (MB)
1205841781	683177001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205841782	683177001(BRA-BRGWA-2S) Matrix Spike (MS)
1205841783	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205841780 (MB)	Radium-226	Result: 0.497 pCi/L > MDA: 0.471 pCi/L <= RDL: 1.00 pCi/L

Miscellaneous Information

Additional Comments
The matrix spike, 1205841782 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683474**

Report Date: September 16, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665594										
QC1205841082 683474001 DUP										
Radium-228	U	0.963	U	1.13	pCi/L	0		N/A	KP1	09/12/2407:38
	Uncert:	+/-0.939		+/-1.27						
	TPU:	+/-0.971		+/-1.31						
QC1205841083 LCS										
Radium-228	70.0			68.7	pCi/L		98	(75%-125%)	KP1	09/12/2407:36
	Uncert:			+/-4.24						
	TPU:			+/-18.1						
QC1205841081 MB										
Radium-228			U	1.43	pCi/L				KP1	09/12/2407:37
	Uncert:			+/-1.02						
	TPU:			+/-1.08						
Rad Ra-226										
Batch 2665882										
QC1205841781 683177001 DUP										
Radium-226		0.501		0.598	pCi/L	17.6		(0% - 100%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-0.365						
	TPU:	+/-0.351		+/-0.384						
QC1205841783 LCS										
Radium-226	27.1			27.2	pCi/L		100	(75%-125%)	MJ2	09/12/2410:12
	Uncert:			+/-2.14						
	TPU:			+/-4.87						
QC1205841780 MB										
Radium-226				0.497	pCi/L				MJ2	09/12/2410:12
	Uncert:			+/-0.343						
	TPU:			+/-0.360						
QC1205841782 683177001 MS										
Radium-226	124	0.501		110	pCi/L		88.3	(75%-125%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-8.62						
	TPU:	+/-0.351		+/-22.9						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683474**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

683471
683474

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: Brian Gay 29 May | ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-45	08/29/24	0955	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-EB-05	08/29/24	1075	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-02	08/29/24	✓	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-25I	08/28/24	1017	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-68D	08/29/24	0958	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683475 | 683477
683471 | 683474
683468 | 683479
AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 16 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 16, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683477

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. . The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683477001	BRA-PZ-63I	Ground Water	08/29/24 11:30	08/30/24 08:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	16-SEP-2024
EPA 903.1 Modified	12-SEP-2024
EPA 904.0/SW846 9320 Modified	12-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683477 GEL Work Order: 683477

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-63I
Sample ID: 683477001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.11	+/-1.10	1.53	+/-1.22	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.48	+/-1.29	1.53	+/-1.47		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.37	+/-0.680	0.577	+/-0.807	1.00	pCi/L			MJ2	09/12/24	1012	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 683477

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2670865

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683477001	BRA-PZ-63I

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665594

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683477001	BRA-PZ-63I
1205841081	Method Blank (MB)
1205841082	683474001(BRA-BRGWC-45) Sample Duplicate (DUP)
1205841083	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665882

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683477001	BRA-PZ-63I
1205841780	Method Blank (MB)
1205841781	683177001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205841782	683177001(BRA-BRGWA-2S) Matrix Spike (MS)
1205841783	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205841780 (MB)	Radium-226	Result: 0.497 pCi/L > MDA: 0.471 pCi/L <= RDL: 1.00 pCi/L

Miscellaneous Information

Additional Comments
The matrix spike, 1205841782 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683477**

Report Date: September 16, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665594										
QC1205841082 683474001 DUP										
Radium-228	U	0.963	U	1.13	pCi/L	0		N/A	KP1	09/12/2407:38
	Uncert:	+/-0.939		+/-1.27						
	TPU:	+/-0.971		+/-1.31						
QC1205841083 LCS										
Radium-228	70.0			68.7	pCi/L		98	(75%-125%)	KP1	09/12/2407:36
	Uncert:			+/-4.24						
	TPU:			+/-18.1						
QC1205841081 MB										
Radium-228			U	1.43	pCi/L				KP1	09/12/2407:37
	Uncert:			+/-1.02						
	TPU:			+/-1.08						
Rad Ra-226										
Batch 2665882										
QC1205841781 683177001 DUP										
Radium-226		0.501		0.598	pCi/L	17.6		(0% - 100%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-0.365						
	TPU:	+/-0.351		+/-0.384						
QC1205841783 LCS										
Radium-226	27.1			27.2	pCi/L		100	(75%-125%)	MJ2	09/12/2410:12
	Uncert:			+/-2.14						
	TPU:			+/-4.87						
QC1205841780 MB										
Radium-226				0.497	pCi/L				MJ2	09/12/2410:12
	Uncert:			+/-0.343						
	TPU:			+/-0.360						
QC1205841782 683177001 MS										
Radium-226	124	0.501		110	pCi/L		88.3	(75%-125%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-8.62						
	TPU:	+/-0.351		+/-22.9						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683477**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

683475
683477

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. May ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb. & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- P2-63I	08/29/24	1130	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

Collection Time-GEL WO: 683477 (BRA-PZ-63I)

Will James <Will.James@gel.com>

Tue 9/3/2024 3:24 PM

To:Joju Abraham <jabraham@southernco.com>;betsy.mcdaniel@atlcc.net <betsy.mcdaniel@atlcc.net>;Brian Steele <brian.steele@atlcc.net>;Chris Parker <chris.parker@atlcc.net>;Monte Jones <monte.jones@atlcc.net>;Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>;KNJURINK@SOUTHERNCO.COM <KNJURINK@SOUTHERNCO.COM>;Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>;NSMUSKUS@SOUTHERNCO.COM <NSMUSKUS@SOUTHERNCO.COM>; lbmidkif@southernco.com <lbmidkif@southernco.com>;CCollins@Geosyntec.com <ccollins@geosyntec.com>;CNelson@Geosyntec.com <CNelson@Geosyntec.com>; Autumn.Acree@Geosyntec.com <Autumn.Acree@Geosyntec.com>
Cc:Team Pinnick <Team.Pinnick@gel.com>

1 attachments (538 KB)

683477-coc.pdf;

Good afternoon,

Notifying you that the sample collection times for "BRA-PZ-61I" were changed from 10:30 to 11:30 on all the containers except for the sample container designated for TDS analysis. No reply is necessary just wanted to let you know.

Please see attached for reference.

Thank you,

Will James
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 | PO Box 30712, Charleston, SC 29417
Office Direct: 843.769.7371 Ext. 4261 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Will.James@gel.com | Website: www.gel.com
Analytical Testing

List of current GEL Certifications as of 16 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 19, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance RCHEM
Work Order: 683479

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The metal analysis container for sample ID 683479008(BRA-PZ-51I) did not have the I, sample ID was used from the chain of custody. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683479001	BRA-PZ-50D	Ground Water	08/29/24 10:00	08/30/24 08:30
683479002	BRA-PZ-64I	Ground Water	08/29/24 11:35	08/30/24 08:30
683479003	BRA-PZ-61I	Ground Water	08/29/24 12:05	08/30/24 08:30
683479004	BRA-BRGWC-50	Ground Water	08/29/24 13:30	08/30/24 08:30
683479005	BRA-PZ-51D	Ground Water	08/29/24 13:40	08/30/24 08:30
683479006	BRA-APBCD-FB-03	Water	08/29/24 15:00	08/30/24 08:30
683479007	BRA-APBCD-FD-03	Ground Water	08/29/24 12:00	08/30/24 08:30
683479008	BRA-PZ-51I	Ground Water	08/29/24 14:20	08/30/24 08:30
683479009	BRA-APBCD-EB-06	Water	08/29/24 14:45	08/30/24 08:30
683479010	BRA-PZ-60I	Ground Water	08/29/24 12:44	08/30/24 08:30
683479011	BRA-PZ-58I	Ground Water	08/29/24 15:15	08/30/24 08:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	19-SEP-2024
EPA 903.1 Modified	19-SEP-2024
EPA 904.0/SW846 9320 Modified	12-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683479 GEL Work Order: 683479

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-50D
Sample ID: 683479001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.01	+/-1.04	1.46	+/-1.16	3.00	pCi/L			KP1	09/12/24	0749	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.49	+/-1.15	1.46	+/-1.29		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.48	+/-0.501	0.383	+/-0.552	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	89.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-64I
Sample ID: 683479002
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.38	+/-1.07	1.66	+/-1.12	3.00	pCi/L			KP1	09/12/24	0747	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.72	+/-1.11	1.66	+/-1.17		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.334	+/-0.306	0.461	+/-0.316	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-61I
Sample ID: 683479003
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.04	+/-1.13	1.64	+/-1.25	3.00	pCi/L			KP1	09/12/24	0747	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.64	+/-1.19	1.64	+/-1.30		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.596	+/-0.364	0.380	+/-0.374	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 683479004 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.98	+/-1.15	1.70	+/-1.26	3.00	pCi/L			KP1	09/12/24	0747	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.86	+/-1.29	1.70	+/-1.43		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.88	+/-0.580	0.541	+/-0.684	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	82.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-51D
Sample ID: 683479005
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.83	+/-1.23	1.67	+/-1.43	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.43	+/-1.30	1.67	+/-1.49		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.604	+/-0.417	0.571	+/-0.431	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 683479006 Client ID: GPCC001
Matrix: WQ
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.104	+/-0.860	1.69	+/-0.861	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.407	+/-0.905	1.69	+/-0.908		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.407	+/-0.281	0.354	+/-0.291	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 683479007 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.53	+/-1.07	1.65	+/-1.14	3.00	pCi/L			KP1	09/12/24	0736	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.27	+/-1.31	1.65	+/-1.44		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.74	+/-0.756	0.542	+/-0.883	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-51I
Sample ID: 683479008
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.46	+/-1.05	1.65	+/-1.12	3.00	pCi/L			KP1	09/12/24	0740	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.55	+/-1.19	1.65	+/-1.26		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.09	+/-0.545	0.702	+/-0.579	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	88.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 683479009 Client ID: GPCC001
Matrix: WQ
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.81	+/-1.19	1.85	+/-1.27	3.00	pCi/L			KP1	09/12/24	0736	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.07	+/-1.21	1.85	+/-1.30		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.259	+/-0.239	0.330	+/-0.245	1.00	pCi/L			MJ2	09/19/24	1119	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	77.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-60I
Sample ID: 683479010
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.71	+/-1.11	1.73	+/-1.19	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.70	+/-1.25	1.73	+/-1.36		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.00	+/-0.585	0.546	+/-0.660	1.00	pCi/L			MJ2	09/19/24	1119	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	85.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-58I
Sample ID: 683479011
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.22	+/-1.09	1.79	+/-1.14	3.00	pCi/L			KP1	09/12/24	0739	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.34	+/-1.27	1.79	+/-1.36		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.12	+/-0.648	0.377	+/-0.755	1.00	pCi/L			MJ2	09/19/24	1119	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	84.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2672824

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683479001	BRA-PZ-50D
683479002	BRA-PZ-64I
683479003	BRA-PZ-61I
683479004	BRA-BRGWC-50
683479005	BRA-PZ-51D
683479006	BRA-APBCD-FB-03
683479007	BRA-APBCD-FD-03
683479008	BRA-PZ-51I
683479009	BRA-APBCD-EB-06
683479010	BRA-PZ-60I
683479011	BRA-PZ-58I

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665594

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683479001	BRA-PZ-50D
683479002	BRA-PZ-64I
683479003	BRA-PZ-61I
683479004	BRA-BRGWC-50
683479005	BRA-PZ-51D
683479006	BRA-APBCD-FB-03
683479007	BRA-APBCD-FD-03
683479008	BRA-PZ-51I
683479009	BRA-APBCD-EB-06
683479010	BRA-PZ-60I
683479011	BRA-PZ-58I

1205841081	Method Blank (MB)
1205841082	683474001(BRA-BRGWC-45) Sample Duplicate (DUP)
1205841083	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665896

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683479001	BRA-PZ-50D
683479002	BRA-PZ-64I
683479003	BRA-PZ-61I
683479004	BRA-BRGWC-50
683479005	BRA-PZ-51D
683479006	BRA-APBCD-FB-03
683479007	BRA-APBCD-FD-03
683479008	BRA-PZ-51I
683479009	BRA-APBCD-EB-06
683479010	BRA-PZ-60I
683479011	BRA-PZ-58I
1205841832	Method Blank (MB)
1205841833	683097001(NonSDG) Sample Duplicate (DUP)
1205841834	683097001(NonSDG) Matrix Spike (MS)
1205841835	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205841834 (Non SDG 683097001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683479**

Report Date: September 19, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665594										
QC1205841082 683474001 DUP										
Radium-228	U	0.963	U	1.13	pCi/L	0		N/A	KP1	09/12/2407:38
	Uncert:	+/-0.939		+/-1.27						
	TPU:	+/-0.971		+/-1.31						
QC1205841083 LCS										
Radium-228	70.0			68.7	pCi/L		98	(75%-125%)	KP1	09/12/2407:36
	Uncert:			+/-4.24						
	TPU:			+/-18.1						
QC1205841081 MB										
Radium-228			U	1.43	pCi/L				KP1	09/12/2407:37
	Uncert:			+/-1.02						
	TPU:			+/-1.08						
Rad Ra-226										
Batch 2665896										
QC1205841833 683097001 DUP										
Radium-226		0.920		0.970	pCi/L	5.29		(0% - 100%)	MJ2	09/19/2411:19
	Uncert:	+/-0.412		+/-0.413						
	TPU:	+/-0.437		+/-0.445						
QC1205841835 LCS										
Radium-226	27.3			24.8	pCi/L		90.9	(75%-125%)	MJ2	09/19/2411:19
	Uncert:			+/-2.14						
	TPU:			+/-5.04						
QC1205841832 MB										
Radium-226			U	0.115	pCi/L				MJ2	09/19/2411:19
	Uncert:			+/-0.168						
	TPU:			+/-0.170						
QC1205841834 683097001 MS										
Radium-226	170	0.920		140	pCi/L		81.4	(75%-125%)	MJ2	09/19/2411:19
	Uncert:	+/-0.412		+/-12.4						
	TPU:	+/-0.437		+/-32.7						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683479**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683479
683468

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: B. Ford J. May
ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA-PZ-50D	08/29/24	1060	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-64I	08/29/24	1135	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-61I	08/29/24	1205	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC50	08/29/24	1330	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51D	08/29/24	1340	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-03	08/29/24	1500	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-03	08/29/24	✓	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51I	08/29/24	1420	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-06	08/29/24	1425	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-PZ-60I	08/29/24	1244	G	N	WG			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		08-30-24	0830		8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: JBrooks 2/14/24 | ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- P2-58I	08/29/24	1515	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S2
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683468

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 19 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

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Memorandum

Date:	31 January 2025
To:	Lauren Fitzgerald
From:	Kristoffer Henderson
CC:	Ashley Wilson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders (WOs) 683170, 683174, 683177, 683389, 683391, 683474 and 683477**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty groundwater samples including four equipment blanks, four field blanks and four field duplicate samples collected 27-29 August 2024, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
683170001	BRA-BRGWC-38S
683170002	BRA-PZ-53D
683170003	BRA-PZ-13S
683170004	BRA-BRGWC-37S
683170005	BRA-APE-FB-07
683170006	BRA-APE-FD-04
683174001	BRA-BRGWA-23S
683174002	BRA-APBCD-FB-01
683174003	BRA-BRGWC-29I
683174004	BRA-BRGWC-27I
683174005	BRA-PZ-74I
683174006	BRA-PZ-75I
683174007	BRA-PZ-44
683174008	BRA-APBCD-FD-01
683174009	BRA-APBCD-EB-04
683177001	BRA-BRGWA-2S
683177002	BRA-BRGWA-5S
683177003	BRA-BRGWA-2I
683177004	BRA-BRGWA-5I
683177005	BRA-BRGWA-6S
683389001	BRA-BRGWC-17S

Laboratory IDs	Client IDs
683389002	BRA-BRGWC-33S
683389003	BRA-BRGWC-34S
683389004	BRA-BRGWC-35S
683389005	BRA-BRGWC-36S
683389006	BRA-PZ-52D
683389007	BRA-PZ-70I
683389008	BRA-APE-FD-05
683389009	BRA-APE-FB-08
683389010	BRA-APE-EB-09
683389011	BRA-APE-EB-10
683391001	BRA-BRGWC-30I
683391002	BRA-BRGWC-47
683391003	BRA-APBCD-FB-02
683391004	BRA-BRGWC-52I
683391005	BRA-BRGWC-32S
683474001	BRA-BRGWC-45
683474002	BRA-APBCD-EB-05
683474003	BRA-APBCD-FD-02
683474004	BRA-BRGWC-25I
683474005	BRA-PZ-68D
683477001	BRA-PZ-63I

The samples were received at 0.0, 2.0 and 1.0 degrees Celsius (°C), both within and outside of the EPA Region 4 criteria of 4°C $\pm$ 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

683177: The laboratory noted that the radium container for sample BRA-BRGWA-2S was missing the label.

683170, 683174 and 683177: The laboratory noted three 1L containers were received without labels.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by modified US EPA method 903.1, modified radium-228 by US EPA methods 904.0/9320 modified and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
⊗ Method Blank
✓ Matrix Spike
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The radiochemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

683170, 683177, 683389, 683391 and 683474: Total radium was reported at the minimum detectable concentration (MDC) for radium-226 and radium-228. However, radium-226 was detected in the following samples greater than the MDC, BRA-APE-FD-04, BRA-BRGWC-37S, BRA-BRGWC-38S, BRA-BRGWA-2I, BRA-BRGWA-2S, BRA-APE-EB-10, BRA-PZ-70I and BRA-BRGWC-32S. Since total radium is calculated from radium-226 and radium-228, and

radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
BRA-APE-FD-04	Combined Radium 226 + 228	1.62	U	1.62	NA	RO1
BRA-BRGWC-37S	Combined Radium 226 + 228	2.01	U	2.01	NA	RO1
BRA-BRGWC-38S	Combined Radium 226 + 228	0.945	U	0.945	NA	RO1
BRA-BRGWA-2I	Combined Radium 226 + 228	0.864	U	0.864	NA	RO1
BRA-BRGWA-2S	Combined Radium 226 + 228	1.40	U	1.40	NA	RO1
BRA-APE-EB-10	Combined Radium 226 + 228	1.21	U	1.21	NA	RO1
BRA-PZ-70I	Combined Radium 226 + 228	1.25	U	1.25	NA	RO1
BRA-BRGWC-32S	Combined Radium 226 + 228	0.737	U	0.737	NA	RO1
BRA-APBCD-EB-05	Combined Radium 226 + 228	0.808	U	0.808	NA	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Radium-226 and radium-228 were not detected in the method blanks at or above the MDCs, with the following exceptions.

683177, 683474 and 683477: Radium-226 (0.497 pCi/L) was detected in the method blank in batch 2665882 at a concentration greater than the MDC.

Since the mean differences were less than 2 between the blank, and the sample concentrations were less than ten times the blank concentration, the radium-226 the combined radium 226 + 228 results for samples BRA-BRGWA-2I, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-APBCD-EB-05 and BRA-BRGWC-45 were UJ qualified as not statistically distinguishable from the blank.

Since the mean differences were greater than 3 between the blank, and the sample concentrations were less than ten times the blank concentration, the radium-226 the combined radium 226 + 228 results for samples BRA-BRGWA-5I, BRA-APBCD-FD-02, BRA-BRGWC-25I, BRA-PZ-68D and BRA-PZ-63I were J qualified as estimated.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2I	Radium-226	0.864	NA	0.864	UJ	BL2
BRA-BRGWA-2I	Combined Radium 226 + 228	0.864	U	0.864	UJ	BL2
BRA-BRGWA-2S	Radium-226	0.501	NA	0.501	UJ	BL2
BRA-BRGWA-2S	Combined Radium 226 + 228	1.40	U	1.40	UJ	BL2
BRA-BRGWA-5I	Radium-226	3.62	NA	3.62	J	BL2
BRA-BRGWA-5I	Combined Radium 226 + 228	3.62	NA	3.62	J	BL2
BRA-BRGWA-6S	Radium-226	0.539	NA	0.539	UJ	BL2
BRA-BRGWA-6S	Combined Radium 226 + 228	1.64	NA	1.64	UJ	BL2
BRA-APBCD-EB-05	Radium-226	0.43	NA	0.43	UJ	BL2
BRA-APBCD-EB-05	Combined Radium 226 + 228	0.808	U	0.808	UJ	BL2
BRA-APBCD-FD-02	Radium-226	3.30	NA	3.30	J	BL2
BRA-APBCD-FD-02	Combined Radium 226 + 228	3.95	NA	3.95	J	BL2
BRA-BRGWC-25I	Radium-226	4.90	NA	4.90	J	BL2
BRA-BRGWC-25I	Combined Radium 226 + 228	6.24	NA	6.24	J	BL2
BRA-BRGWC-45	Radium-226	0.752	NA	0.752	UJ	BL2
BRA-BRGWC-45	Combined Radium 226 + 228	1.71	NA	1.71	UJ	BL2
BRA-PZ-68D	Radium-226	4.79	NA	4.79	J	BL2
BRA-PZ-68D	Combined Radium 226 + 228	5.43	NA	5.43	J	BL2
BRA-PZ-63I	Radium-226	2.37	NA	2.37	J	BL2
BRA-PZ-63I	Combined Radium 226 + 228	4.48	NA	4.48	J	BL2

pCi/L-picocuries per liter
NA-not applicable

1.4 Matrix Spike (MS)

Two sample set specific MSs were reported for radium-226 using samples BRA-BRGWA-2S and BRA-BRGWC-17S. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for radium-226 using sample BRA-BRGWC-17S and four sample set specific laboratory duplicates were reported for radium-228 using samples BRA-BRGWC-38S, BRA-BRGWA-23S, BRA-BRGWC-17S and BRA-BRGWC-45. The replicate error ratio (RER) results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Tracers were reported for radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks at or above the MDCs, with the following exceptions.

683389: Radium-226 (0.595 pCi/L), radium-228 (2.42 pCi/L) and combined radium 226 and 228 (3.02 pCi/L) were detected in the BRA-APE-FB-0, at concentrations greater than the MDC. The associated samples were qualified as follows:

683391: Radium-226 (0.673 pCi/L), radium-228 (2.86 pCi/L) and combined radium 226 and 228 (3.54 pCi/L) were detected in the BRA-APE-FB-08 and BRA-APBCD-FB-02, respectively, at concentrations greater than the MDC. The associated samples were qualified as follows:

If the mean difference was less than 2 between the blank, and the sample concentration was less than ten times the blank concentration, the results for samples were UJ qualified as not statistically distinguishable from the blank.

If the mean difference was greater than 3 between the blank, and the sample concentration was less than ten times the blank concentration, the results for samples were J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APE-EB-10	Radium-226	0.505	NA	0.505	UJ	BFH
BRA-BRGWC-33S	Radium-226	0.947	NA	0.947	UJ	BFH
BRA-BRGWC-36S	Radium-226	0.981	NA	0.981	UJ	BFH
BRA-PZ-52D	Radium-226	0.984	NA	0.984	UJ	BFH
BRA-PZ-70I	Radium-226	0.899	NA	0.899	UJ	BFH
BRA-APE-EB-09	Radium-228	3.23	NA	3.23	UJ	BFH
BRA-BRGWC-33S	Radium-228	1.73	NA	1.73	UJ	BFH
BRA-BRGWC-34S	Radium-228	2.84	NA	2.84	UJ	BFH
BRA-BRGWC-36S	Radium-228	1.47	NA	1.47	UJ	BFH
BRA-PZ-52D	Radium-228	4.35	NA	4.35	UJ	BFH
BRA-APE-EB-09	Combined Radium 226 + 228	3.35	NA	3.35	UJ	BFH

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-33S	Combined Radium 226 + 228	2.68	NA	2.68	UJ	BFH
BRA-BRGWC-34S	Combined Radium 226 + 228	3.15	NA	3.15	UJ	BFH
BRA-BRGWC-36S	Combined Radium 226 + 228	2.45	NA	2.45	UJ	BFH
BRA-PZ-52D	Combined Radium 226 + 228	5.34	NA	5.34	UJ	BFH
BRA-BRGWC-30I	Radium-226	0.752	NA	0.752	UJ	BFH
BRA-BRGWC-32S	Radium-226	0.737	NA	0.737	UJ	BFH
BRA-BRGWC-52I	Radium-226	2.87	NA	2.87	J	BFH
BRA-BRGWC-30I	Radium-228	3.07	NA	3.07	UJ	BFH
BRA-BRGWC-52I	Radium-228	11.8	NA	11.8	J	BFH
BRA-BRGWC-30I	Combined Radium 226 + 228	3.82	NA	3.82	UJ	BFH
BRA-BRGWC-32S	Combined Radium 226 + 228	0.737	U	0.737	UJ	BFH
BRA-BRGWC-52I	Combined Radium 226 + 228	14.7	NA	14.7	J	BFH

pCi/L-picocuries per liter
NA-not applicable

1.9 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-06 BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Radium-226 and radium-228 were not detected in the equipment blanks at or above the MDCs, with the following exceptions.

683389: Radium-228 (3.23 pCi/L) and combined radium 226 + 228 (3.35 pCi/L) were detected in the BRA-APE-EB-09 at concentrations greater than the MDC. Radium-226 (0.505 pCi/L) was detected in the BRA-APE-EB-10 at concentrations greater than the MDC. Since radium-226, radium-228 and combined radium 226 + 228 were UJ qualified due to field blank contamination, no additional qualifications were applied to the data.

683474: Radium-226 (0.430 pCi/L) was detected in BRA-APBCD-EB-05 at a concentration greater than the MDC. Since radium-226 was UJ qualified due to method blank contamination, no additional qualifications were applied to the data.

1.10 Field Duplicate

Four duplicate samples, BRA-APE-FD-04, BRA-APBCD-FD-01, BRA-APE-FD-05 and BRA-APBCD-FD-02 were collected with the sample set. Acceptable precision [RER (1σ) < 3] was demonstrated between the field duplicates and the original samples, BRA-PZ-13S, BRA-BRGWC-27I, BRA-BRGWC-35S and BRA-BRGWC-25I, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	17 February 2025
To:	Courtney Collins
From:	Kristoffer Henderson
CC:	Ashley Wilson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – GEL Laboratories, LLC Work Order 683479**

SITE: Plant Branch CCR Groundwater Compliance ASD

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eight groundwater samples including one equipment blank, one field blank and one field duplicate samples collected 29 August 2024, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
683479001	BRA-PZ-50D
683479002	BRA-PZ-64I
683479003	BRA-PZ-61I
683479004	BRA-BRGWC-50
683479005	BRA-PZ-51D
683479006	BRA-APBCD-FB-03

Laboratory IDs	Client IDs
683479007	BRA-APBCD-FD-03
683479008	BRA-PZ-51I
683479009	BRA-APBCD-EB-06
683479010	BRA-PZ-60I
683479011	BRA-PZ-58I

The samples were received at 1.0 degrees Celsius (°C), outside of the EPA Region 4 criteria of 4°C ± 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by modified US EPA method 903.1, modified radium-228 by US EPA methods 904.0/9320 modified and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The radiochemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC) for radium-226 and radium-228. However, radium-226 was detected in the following sample greater than the MDC, BRA-APBCD-FB-03. Since total radium is calculated from radium-226 and radium-228, and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for this sample was reported with no qualifications.

Since total radium is calculated from radium-226 and radium-228 and radium-226 and radium-228 were less than the MDC, and based on professional and technical judgment, the total radium concentrations for samples BRA-APBCD-EB-06 and BRA-PZ-64I were U qualified as less than the MDC.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
BRA-APBCD-FB-03	Combined Radium 226 + 228	0.407	U	0.407	NA	RO1
BRA-APBCD-EB-06	Combined Radium 226 + 228	2.07	NA	2.07	U	RO1
BRA-PZ-64I	Combined Radium 226 + 228	1.72	NA	1.72	U	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Radium-226 and radium-228 were not detected in the method blanks at or above the MDCs.

1.4 Matrix Spike (MS)

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported with the sample set.

1.7 Tracers and Carriers

Tracers were reported for radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

One field blank, BRA-APBCD-FB-03, was collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks at or above the MDCs, with the following exceptions.

Radium-226 (0.407 pCi/L) was detected in the BRA-APBCD-FB-03, at a concentration greater than the MDC. The associated samples were qualified as follows:

Since the mean differences were less than 2 between the blank, and the sample concentrations were less than ten times the blank concentration, the radium-226 results for samples BRA-PZ-51D and BRA-PZ-61I were UJ qualified as not statistically distinguishable from the blank.

Since the mean differences were greater than 3 between the blank, and the sample concentrations were less than ten times the blank concentration, the radium-226 and/or the combined radium 226

+ 228 results for samples BRA-APBCD-FD-03, BRA-BRGWC-50, BRA-PZ-50D, BRA-PZ-51D, BRA-PZ-51I, BRA-PZ-58I, BRA-PZ-60I and BRA-PZ-61I were J qualified as estimated. In addition, the combined radium 226 + 228 results for samples BRA-PZ-51D and BRA-PZ-61I were J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APBCD-FD-03	Radium-226	2.74	NA	2.74	J	BFH
BRA-APBCD-FD-03	Combined Radium 226 + 228	4.27	NA	4.27	J	BFH
BRA-BRGWC-50	Radium-226	1.88	NA	1.88	J	BFH
BRA-BRGWC-50	Combined Radium 226 + 228	3.86	NA	3.86	J	BFH
BRA-PZ-50D	Radium-226	1.48	NA	1.48	J	BFH
BRA-PZ-50D	Combined Radium 226 + 228	3.49	NA	3.49	J	BFH
BRA-PZ-51D	Radium-226	0.604	NA	0.604	UJ	BFH
BRA-PZ-51D	Combined Radium 226 + 228	3.43	NA	3.43	J	BFH
BRA-PZ-51I	Radium-226	1.09	NA	1.09	J	BFH
BRA-PZ-51I	Combined Radium 226 + 228	2.55	NA	2.55	J	BFH
BRA-PZ-58I	Radium-226	2.12	NA	2.12	J	BFH
BRA-PZ-58I	Combined Radium 226 + 228	3.34	NA	3.34	J	BFH
BRA-PZ-60I	Radium-226	2.00	NA	2.00	J	BFH
BRA-PZ-60I	Combined Radium 226 + 228	3.70	NA	3.70	J	BFH
BRA-PZ-61I	Radium-226	0.596	NA	0.596	UJ	BFH
BRA-PZ-61I	Combined Radium 226 + 228	2.64	NA	2.64	J	BFH

pCi/L-picocuries per liter
NA-not applicable

1.9 Equipment Blank

One equipment blanks, BRA-APBCD-EB-06, was collected with the sample set. Radium-226 and radium-228 were not detected in the equipment blanks at or above the MDCs, with the following exceptions.

Combined radium 226 + 228 (2.07 pCi/L) was detected in the BRA-APBCD-EB-06 at a concentration greater than the MDC. Since combined radium 226 + 228 was qualified as nondetect

in sample BRA-APBCD-EB-06 due to radium-226 and radium-228 being nondetect, no qualifications were applied to the data.

1.10 Field Duplicate

One duplicate sample, BRA-APBCD-FD-03, was collected with the sample set. Acceptable precision [RER (1σ) < 3] was demonstrated between the field duplicate and the original sample, BRA-BRGWC-50.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

Low-Flow Test Report:

Test Date / Time: 8/27/2024 9:18:34 AM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: BRGWA-2I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56.9 ft** **Total Depth: 66.9 ft** **Initial Depth to Water: 13.42 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61.9 ft** **Estimated Total Volume Pumped: 12.5 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 40.56 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1008
Sunny, 90s
Fe2+ = 0.0

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 9:18 AM	00:00	6.73 pH	24.23 °C	133.21 µS/cm	2.60 mg/L	6.28 NTU	168.4 mV	13.42 ft	250.00 ml/min
8/27/2024 9:23 AM	05:00	6.74 pH	20.09 °C	131.93 µS/cm	0.76 mg/L	2.20 NTU	83.8 mV	15.30 ft	250.00 ml/min
8/27/2024 9:28 AM	10:00	6.75 pH	19.74 °C	131.47 µS/cm	1.51 mg/L	1.90 NTU	96.1 mV	16.00 ft	250.00 ml/min
8/27/2024 9:33 AM	15:00	6.82 pH	19.93 °C	134.08 µS/cm	1.43 mg/L	2.32 NTU	105.1 mV	16.30 ft	250.00 ml/min
8/27/2024 9:38 AM	20:00	6.85 pH	19.90 °C	134.21 µS/cm	1.30 mg/L	3.05 NTU	102.9 mV	16.60 ft	250.00 ml/min
8/27/2024 9:43 AM	25:00	6.89 pH	19.82 °C	136.03 µS/cm	1.04 mg/L	4.42 NTU	102.0 mV	16.70 ft	250.00 ml/min
8/27/2024 9:48 AM	30:00	6.83 pH	20.06 °C	133.10 µS/cm	1.13 mg/L	5.23 NTU	97.7 mV	16.70 ft	250.00 ml/min
8/27/2024 9:53 AM	35:00	6.70 pH	20.00 °C	122.11 µS/cm	1.48 mg/L	3.95 NTU	99.9 mV	16.70 ft	250.00 ml/min
8/27/2024 9:58 AM	40:00	6.62 pH	20.31 °C	116.41 µS/cm	1.61 mg/L	4.27 NTU	103.8 mV	16.80 ft	250.00 ml/min
8/27/2024 10:03 AM	45:00	6.62 pH	20.22 °C	115.12 µS/cm	1.72 mg/L	3.92 NTU	105.8 mV	16.80 ft	250.00 ml/min
8/27/2024 10:08 AM	50:00	6.60 pH	20.15 °C	113.75 µS/cm	1.75 mg/L	3.21 NTU	108.8 mV	16.80 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 9:15:16 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-2S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37 ft** **Total Depth: 47.4 ft** **Initial Depth to Water: 13.63 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 6.7 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, sample time-0945 Fe2+=0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 9:15 AM	00:00	5.95 pH	19.81 °C	58.83 µS/cm	2.82 mg/L	2.45 NTU	175.7 mV	13.63 ft	225.00 ml/min
8/27/2024 9:20 AM	05:00	6.00 pH	19.67 °C	58.37 µS/cm	1.57 mg/L	0.88 NTU	171.1 mV	13.80 ft	225.00 ml/min
8/27/2024 9:25 AM	10:00	6.07 pH	19.88 °C	58.45 µS/cm	1.17 mg/L	0.92 NTU	162.8 mV	13.80 ft	225.00 ml/min
8/27/2024 9:30 AM	15:00	6.09 pH	19.89 °C	57.97 µS/cm	1.02 mg/L	0.89 NTU	157.8 mV	13.80 ft	225.00 ml/min
8/27/2024 9:35 AM	20:00	6.11 pH	20.11 °C	57.72 µS/cm	1.00 mg/L	0.94 NTU	154.9 mV	13.80 ft	225.00 ml/min
8/27/2024 9:40 AM	25:00	6.11 pH	20.21 °C	57.39 µS/cm	1.04 mg/L	0.82 NTU	153.5 mV	13.80 ft	225.00 ml/min
8/27/2024 9:45 AM	30:00	6.02 pH	20.32 °C	57.02 µS/cm	1.02 mg/L	0.75 NTU	154.8 mV	13.80 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 9:22:40 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWA-5I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.9 ft** **Total Depth: 63.9 ft** **Initial Depth to Water: 14.5 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 6.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 0947. Clear 78 degrees. Fe2+ 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 9:22 AM	00:00	6.18 pH	20.70 °C	137.86 µS/cm	4.01 mg/L	0.41 NTU	108.5 mV	14.75 ft	250.00 ml/min
8/27/2024 9:27 AM	05:00	6.44 pH	19.25 °C	142.05 µS/cm	2.74 mg/L	1.14 NTU	98.3 mV	14.75 ft	250.00 ml/min
8/27/2024 9:32 AM	10:00	6.48 pH	19.23 °C	131.21 µS/cm	4.26 mg/L	1.35 NTU	95.3 mV	14.75 ft	250.00 ml/min
8/27/2024 9:37 AM	15:00	6.56 pH	19.27 °C	129.32 µS/cm	4.75 mg/L	0.93 NTU	89.4 mV	14.75 ft	250.00 ml/min
8/27/2024 9:42 AM	20:00	6.56 pH	19.40 °C	128.21 µS/cm	4.97 mg/L	0.75 NTU	87.9 mV	14.75 ft	250.00 ml/min
8/27/2024 9:47 AM	25:00	6.56 pH	19.41 °C	127.27 µS/cm	5.03 mg/L	0.71 NTU	87.6 mV	14.75 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 9:20:08 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWA-5S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33 ft** **Total Depth: 43.06 ft** **Initial Depth to Water: 14.61 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1.68 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 0950. Sunny, 75 degrees F.
Fe2+=0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 9:20 AM	00:00	7.01 pH	24.84 °C	154.72 µS/cm	6.85 mg/L	0.39 NTU	123.3 mV	14.61 ft	250.00 ml/min
8/27/2024 9:25 AM	05:00	6.57 pH	21.14 °C	139.08 µS/cm	3.77 mg/L	0.69 NTU	136.4 mV	14.75 ft	250.00 ml/min
8/27/2024 9:30 AM	10:00	6.65 pH	20.57 °C	139.66 µS/cm	3.46 mg/L	1.05 NTU	97.6 mV	14.75 ft	250.00 ml/min
8/27/2024 9:35 AM	15:00	6.68 pH	20.61 °C	141.49 µS/cm	3.07 mg/L	1.17 NTU	93.6 mV	14.75 ft	250.00 ml/min
8/27/2024 9:40 AM	20:00	6.68 pH	20.78 °C	143.43 µS/cm	2.82 mg/L	1.27 NTU	90.9 mV	14.75 ft	250.00 ml/min
8/27/2024 9:45 AM	25:00	6.66 pH	20.89 °C	144.88 µS/cm	2.68 mg/L	1.25 NTU	89.4 mV	14.75 ft	250.00 ml/min
8/27/2024 9:50 AM	30:00	6.65 pH	20.98 °C	145.95 µS/cm	2.61 mg/L	1.21 NTU	89.1 mV	14.75 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 11:05:36 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWA-6S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.9 ft** **Total Depth: 52.9 ft** **Initial Depth to Water: 28.74 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 6.9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.73 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1135. Cloudy 84 degrees. Fe2+ 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 11:05 AM	00:00	7.23 pH	28.46 °C	43.69 µS/cm	6.34 mg/L	0.59 NTU	81.0 mV	28.74 ft	230.00 ml/min
8/27/2024 11:10 AM	05:00	7.03 pH	20.74 °C	47.63 µS/cm	6.63 mg/L	0.76 NTU	86.6 mV	29.06 ft	230.00 ml/min
8/27/2024 11:15 AM	10:00	6.95 pH	20.58 °C	48.17 µS/cm	6.64 mg/L	0.74 NTU	85.9 mV	29.32 ft	230.00 ml/min
8/27/2024 11:20 AM	15:00	6.89 pH	20.66 °C	48.14 µS/cm	6.64 mg/L	0.76 NTU	86.8 mV	29.40 ft	230.00 ml/min
8/27/2024 11:25 AM	20:00	6.86 pH	20.50 °C	48.12 µS/cm	6.64 mg/L	0.71 NTU	87.6 mV	29.45 ft	230.00 ml/min
8/27/2024 11:30 AM	25:00	6.82 pH	20.57 °C	48.24 µS/cm	6.65 mg/L	0.75 NTU	88.8 mV	29.47 ft	230.00 ml/min
8/27/2024 11:35 AM	30:00	6.80 pH	20.58 °C	48.45 µS/cm	6.66 mg/L	0.78 NTU	90.0 mV	29.47 ft	230.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 11:15:17 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-23S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.5 ft** **Total Depth: 43.5 ft** **Initial Depth to Water: 41.79 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 100 ml/min**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, sample time-1230. Fe2+= 0.0 mg/L. Water level below the top of the pump

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 11:15 AM	00:00	6.40 pH	35.19 °C	71.39 µS/cm	6.83 mg/L	3.99 NTU	145.7 mV	41.79 ft	100.00 ml/min
8/27/2024 11:20 AM	05:00	5.85 pH	30.45 °C	75.82 µS/cm	6.21 mg/L	4.68 NTU	162.1 mV	NA	100.00 ml/min
8/27/2024 11:25 AM	10:00	5.67 pH	30.73 °C	81.64 µS/cm	3.71 mg/L	8.63 NTU	171.9 mV	NA	100.00 ml/min
8/27/2024 11:30 AM	15:00	5.61 pH	31.17 °C	84.19 µS/cm	1.97 mg/L	9.43 NTU	175.4 mV	NA	100.00 ml/min
8/27/2024 11:35 AM	20:00	5.61 pH	31.22 °C	85.01 µS/cm	1.50 mg/L	5.09 NTU	176.3 mV	NA	100.00 ml/min
8/27/2024 11:40 AM	25:00	5.62 pH	31.50 °C	83.69 µS/cm	1.54 mg/L	2.22 NTU	176.0 mV	NA	100.00 ml/min
8/27/2024 11:45 AM	30:00	5.65 pH	31.67 °C	82.29 µS/cm	1.85 mg/L	1.95 NTU	175.4 mV	NA	100.00 ml/min
8/27/2024 11:50 AM	35:00	5.66 pH	32.05 °C	79.83 µS/cm	2.19 mg/L	1.65 NTU	175.0 mV	NA	100.00 ml/min
8/27/2024 11:55 AM	40:00	5.72 pH	31.73 °C	77.18 µS/cm	2.47 mg/L	1.28 NTU	173.7 mV	NA	100.00 ml/min
8/27/2024 12:00 PM	45:00	5.78 pH	31.78 °C	75.60 µS/cm	2.80 mg/L	1.09 NTU	171.6 mV	NA	100.00 ml/min
8/27/2024 12:05 PM	50:00	5.83 pH	32.00 °C	74.02 µS/cm	2.97 mg/L	1.11 NTU	170.6 mV	NA	100.00 ml/min
8/27/2024 12:10 PM	55:00	5.85 pH	32.46 °C	72.57 µS/cm	3.24 mg/L	1.01 NTU	170.0 mV	NA	100.00 ml/min
8/27/2024 12:15 PM	01:00:00	5.87 pH	33.04 °C	72.15 µS/cm	4.59 mg/L	1.03 NTU	170.4 mV	NA	100.00 ml/min
8/27/2024 12:20 PM	01:05:00	5.88 pH	33.32 °C	71.49 µS/cm	5.64 mg/L	1.21 NTU	171.6 mV	NA	100.00 ml/min
8/27/2024 12:25 PM	01:10:00	5.90 pH	34.07 °C	71.07 µS/cm	5.83 mg/L	1.80 NTU	172.0 mV	NA	100.00 ml/min

8/27/2024 12:30 PM	01:15:00	5.92 pH	34.46 °C	70.65 µS/cm	5.78 mg/L	1.67 NTU	172.4 mV	NA	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/29/2024 9:27:10 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-25I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.87 ft** **Total Depth: 22.87 ft** **Initial Depth to Water: 13.17 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 17 ft** **Estimated Total Volume Pumped: 17.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 350 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1017. Sunny 85 degrees. Fe2+ 0.0 mg/L. APBCD-FD-02 taken here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 9:27 AM	00:00	7.96 pH	24.60 °C	517.42 µS/cm	6.69 mg/L	2.10 NTU	150.7 mV	13.30 ft	350.00 ml/min
8/29/2024 9:32 AM	05:00	7.47 pH	19.40 °C	614.25 µS/cm	0.46 mg/L	1.78 NTU	119.5 mV	13.30 ft	350.00 ml/min
8/29/2024 9:37 AM	10:00	7.10 pH	19.37 °C	618.42 µS/cm	0.22 mg/L	1.53 NTU	114.8 mV	13.30 ft	350.00 ml/min
8/29/2024 9:42 AM	15:00	6.90 pH	19.36 °C	619.37 µS/cm	0.19 mg/L	0.87 NTU	111.2 mV	13.30 ft	350.00 ml/min
8/29/2024 9:47 AM	20:00	6.77 pH	19.38 °C	619.47 µS/cm	0.18 mg/L	0.87 NTU	113.6 mV	13.30 ft	350.00 ml/min
8/29/2024 9:52 AM	25:00	6.69 pH	19.40 °C	619.62 µS/cm	0.18 mg/L	0.79 NTU	113.7 mV	13.30 ft	350.00 ml/min
8/29/2024 9:57 AM	30:00	6.64 pH	19.41 °C	620.12 µS/cm	0.17 mg/L	0.86 NTU	111.8 mV	13.30 ft	350.00 ml/min
8/29/2024 10:02 AM	35:00	6.58 pH	19.46 °C	620.12 µS/cm	0.19 mg/L	0.82 NTU	115.4 mV	13.30 ft	350.00 ml/min
8/29/2024 10:07 AM	40:00	6.56 pH	19.41 °C	619.63 µS/cm	0.19 mg/L	0.84 NTU	115.2 mV	13.30 ft	350.00 ml/min
8/29/2024 10:12 AM	45:00	6.54 pH	19.68 °C	625.70 µS/cm	0.22 mg/L	0.91 NTU	112.8 mV	13.30 ft	350.00 ml/min
8/29/2024 10:17 AM	50:00	6.52 pH	19.64 °C	620.33 µS/cm	0.19 mg/L	0.88 NTU	115.5 mV	13.30 ft	350.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 3:02:23 PM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: BRGWC-27I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 13.57 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.36 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1537
Sunny, 90s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 3:02 PM	00:00	6.22 pH	29.33 °C	369.38 µS/cm	5.57 mg/L	0.36 NTU	131.5 mV	13.57 ft	200.00 ml/min
8/27/2024 3:07 PM	05:00	5.50 pH	22.75 °C	337.09 µS/cm	1.84 mg/L	0.30 NTU	205.6 mV	13.60 ft	200.00 ml/min
8/27/2024 3:12 PM	10:00	5.55 pH	22.05 °C	342.18 µS/cm	0.78 mg/L	0.21 NTU	245.9 mV	13.60 ft	200.00 ml/min
8/27/2024 3:17 PM	15:00	5.74 pH	21.85 °C	348.89 µS/cm	0.36 mg/L	0.25 NTU	241.7 mV	13.60 ft	200.00 ml/min
8/27/2024 3:22 PM	20:00	5.82 pH	22.12 °C	356.33 µS/cm	0.25 mg/L	0.25 NTU	236.0 mV	13.60 ft	200.00 ml/min
8/27/2024 3:27 PM	25:00	5.88 pH	21.78 °C	360.40 µS/cm	0.20 mg/L	0.36 NTU	233.5 mV	13.60 ft	200.00 ml/min
8/27/2024 3:32 PM	30:00	5.93 pH	22.01 °C	362.76 µS/cm	0.20 mg/L	0.15 NTU	231.8 mV	13.60 ft	200.00 ml/min
8/27/2024 3:37 PM	35:00	5.95 pH	21.75 °C	363.87 µS/cm	0.18 mg/L	0.30 NTU	230.2 mV	13.60 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 3:00:05 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-29I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.6 ft** **Total Depth: 22.6 ft** **Initial Depth to Water: 11.63 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 17 ft** **Estimated Total Volume Pumped: 13.5 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, sample time-1545, FB-01 here at 1525. Fe2+ = 6.5 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 3:00 PM	00:00	3.48 pH	24.87 °C	472.13 µS/cm	3.94 mg/L	1.73 NTU	299.9 mV	11.63 ft	300.00 ml/min
8/27/2024 3:05 PM	05:00	3.99 pH	24.33 °C	442.95 µS/cm	1.06 mg/L	1.43 NTU	266.1 mV	11.80 ft	300.00 ml/min
8/27/2024 3:10 PM	10:00	4.29 pH	24.46 °C	428.95 µS/cm	0.31 mg/L	1.05 NTU	237.6 mV	11.80 ft	300.00 ml/min
8/27/2024 3:15 PM	15:00	4.40 pH	24.65 °C	425.58 µS/cm	0.19 mg/L	0.86 NTU	226.5 mV	11.80 ft	300.00 ml/min
8/27/2024 3:20 PM	20:00	4.44 pH	24.99 °C	424.89 µS/cm	0.16 mg/L	0.77 NTU	221.9 mV	11.80 ft	300.00 ml/min
8/27/2024 3:25 PM	25:00	4.46 pH	24.95 °C	423.15 µS/cm	0.14 mg/L	0.79 NTU	219.6 mV	11.80 ft	300.00 ml/min
8/27/2024 3:30 PM	30:00	4.47 pH	25.06 °C	423.58 µS/cm	0.13 mg/L	0.63 NTU	218.1 mV	11.80 ft	300.00 ml/min
8/27/2024 3:35 PM	35:00	4.46 pH	25.03 °C	422.85 µS/cm	0.12 mg/L	0.89 NTU	217.6 mV	11.80 ft	300.00 ml/min
8/27/2024 3:40 PM	40:00	4.47 pH	24.88 °C	422.82 µS/cm	0.11 mg/L	0.95 NTU	217.0 mV	11.80 ft	300.00 ml/min
8/27/2024 3:45 PM	45:00	4.47 pH	24.56 °C	423.54 µS/cm	0.11 mg/L	0.84 NTU	216.7 mV	11.80 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 9:30:11 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-30I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.8 ft** **Total Depth: 22.86 ft** **Initial Depth to Water: 5.35 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 17 ft** **Estimated Total Volume Pumped: 64.5 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, sample time-1305, Fe2+=0.5 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 9:30 AM	00:00	6.38 pH	25.67 °C	1,382.8 µS/cm	5.46 mg/L	237.00 NTU	200.4 mV	5.35 ft	300.00 ml/min
8/28/2024 9:35 AM	05:00	6.43 pH	23.68 °C	1,311.6 µS/cm	1.95 mg/L	1,000.00 NTU	123.4 mV	5.60 ft	300.00 ml/min
8/28/2024 9:40 AM	10:00	6.42 pH	23.15 °C	1,421.1 µS/cm	0.30 mg/L	892.00 NTU	102.2 mV	5.60 ft	300.00 ml/min
8/28/2024 9:45 AM	15:00	6.44 pH	22.87 °C	1,462.5 µS/cm	0.20 mg/L	583.00 NTU	96.7 mV	5.60 ft	300.00 ml/min
8/28/2024 9:50 AM	20:00	6.45 pH	22.72 °C	1,479.0 µS/cm	0.14 mg/L	274.00 NTU	94.0 mV	5.60 ft	300.00 ml/min
8/28/2024 9:55 AM	25:00	6.45 pH	22.85 °C	1,486.4 µS/cm	0.12 mg/L	231.00 NTU	92.1 mV	5.60 ft	300.00 ml/min
8/28/2024 10:00 AM	30:00	6.46 pH	22.75 °C	1,484.5 µS/cm	0.11 mg/L	159.00 NTU	90.8 mV	5.60 ft	300.00 ml/min
8/28/2024 10:05 AM	35:00	6.46 pH	22.88 °C	1,484.5 µS/cm	0.11 mg/L	84.00 NTU	89.8 mV	5.60 ft	300.00 ml/min
8/28/2024 10:10 AM	40:00	6.46 pH	22.89 °C	1,483.7 µS/cm	0.10 mg/L	85.00 NTU	88.5 mV	5.60 ft	300.00 ml/min
8/28/2024 10:15 AM	45:00	6.46 pH	23.07 °C	1,482.8 µS/cm	0.10 mg/L	82.00 NTU	87.6 mV	5.60 ft	300.00 ml/min
8/28/2024 10:20 AM	50:00	6.46 pH	22.90 °C	1,477.7 µS/cm	0.10 mg/L	80.00 NTU	86.6 mV	5.60 ft	300.00 ml/min
8/28/2024 10:25 AM	55:00	6.46 pH	23.10 °C	1,482.0 µS/cm	0.10 mg/L	80.00 NTU	85.7 mV	5.60 ft	300.00 ml/min
8/28/2024 10:30 AM	01:00:00	6.46 pH	23.19 °C	1,482.0 µS/cm	0.10 mg/L	76.00 NTU	85.4 mV	5.60 ft	300.00 ml/min
8/28/2024 10:35 AM	01:05:00	6.46 pH	23.22 °C	1,487.2 µS/cm	0.10 mg/L	71.00 NTU	85.1 mV	5.60 ft	300.00 ml/min

8/28/2024 10:40 AM	01:10:00	6.45 pH	23.31 °C	1,489.1 µS/cm	0.10 mg/L	59.00 NTU	85.0 mV	5.60 ft	300.00 ml/min
8/28/2024 10:45 AM	01:15:00	6.46 pH	23.30 °C	1,486.3 µS/cm	0.10 mg/L	41.00 NTU	84.4 mV	5.60 ft	300.00 ml/min
8/28/2024 10:50 AM	01:20:00	6.45 pH	23.22 °C	1,487.6 µS/cm	0.10 mg/L	34.00 NTU	84.3 mV	5.60 ft	300.00 ml/min
8/28/2024 10:55 AM	01:25:00	6.46 pH	23.31 °C	1,485.9 µS/cm	0.09 mg/L	29.00 NTU	83.9 mV	5.60 ft	300.00 ml/min
8/28/2024 11:00 AM	01:30:00	6.46 pH	23.44 °C	1,484.6 µS/cm	0.10 mg/L	32.00 NTU	83.7 mV	5.60 ft	300.00 ml/min
8/28/2024 11:05 AM	01:35:00	6.46 pH	23.21 °C	1,483.9 µS/cm	0.10 mg/L	31.00 NTU	83.7 mV	5.60 ft	300.00 ml/min
8/28/2024 11:10 AM	01:40:00	6.46 pH	23.24 °C	1,482.3 µS/cm	0.10 mg/L	34.00 NTU	83.4 mV	5.60 ft	300.00 ml/min
8/28/2024 11:15 AM	01:45:00	6.46 pH	23.45 °C	1,481.1 µS/cm	0.09 mg/L	33.00 NTU	83.4 mV	5.60 ft	300.00 ml/min
8/28/2024 11:20 AM	01:50:00	6.46 pH	23.39 °C	1,484.3 µS/cm	0.10 mg/L	30.00 NTU	83.1 mV	5.60 ft	300.00 ml/min
8/28/2024 11:25 AM	01:55:00	6.46 pH	23.30 °C	1,488.5 µS/cm	0.10 mg/L	31.00 NTU	83.3 mV	5.60 ft	300.00 ml/min
8/28/2024 11:30 AM	02:00:00	6.46 pH	23.39 °C	1,485.5 µS/cm	0.10 mg/L	27.00 NTU	83.1 mV	5.60 ft	300.00 ml/min
8/28/2024 11:35 AM	02:05:00	6.45 pH	23.83 °C	1,480.1 µS/cm	0.34 mg/L	47.00 NTU	96.4 mV	5.60 ft	300.00 ml/min
8/28/2024 11:40 AM	02:10:00	6.47 pH	21.96 °C	1,497.0 µS/cm	0.08 mg/L	65.00 NTU	92.6 mV	5.60 ft	300.00 ml/min
8/28/2024 11:45 AM	02:15:00	6.48 pH	22.02 °C	1,499.5 µS/cm	0.09 mg/L	62.00 NTU	91.3 mV	5.60 ft	300.00 ml/min
8/28/2024 11:50 AM	02:20:00	6.47 pH	21.48 °C	1,501.8 µS/cm	0.06 mg/L	61.00 NTU	91.3 mV	5.60 ft	300.00 ml/min
8/28/2024 11:55 AM	02:25:00	6.48 pH	21.77 °C	1,504.0 µS/cm	0.07 mg/L	58.00 NTU	90.8 mV	5.60 ft	300.00 ml/min
8/28/2024 12:00 PM	02:30:00	6.48 pH	22.05 °C	1,500.8 µS/cm	0.06 mg/L	44.00 NTU	90.8 mV	5.60 ft	300.00 ml/min
8/28/2024 12:05 PM	02:35:00	6.48 pH	21.93 °C	1,504.2 µS/cm	0.07 mg/L	48.00 NTU	90.4 mV	5.60 ft	300.00 ml/min
8/28/2024 12:10 PM	02:40:00	6.49 pH	21.96 °C	1,514.7 µS/cm	0.07 mg/L	48.00 NTU	90.9 mV	5.60 ft	300.00 ml/min
8/28/2024 12:15 PM	02:45:00	6.48 pH	21.78 °C	1,502.6 µS/cm	0.07 mg/L	42.00 NTU	90.6 mV	5.60 ft	300.00 ml/min
8/28/2024 12:20 PM	02:50:00	6.48 pH	21.85 °C	1,503.0 µS/cm	0.07 mg/L	46.00 NTU	90.9 mV	5.60 ft	300.00 ml/min
8/28/2024 12:25 PM	02:55:00	6.48 pH	21.61 °C	1,504.7 µS/cm	0.06 mg/L	47.00 NTU	90.9 mV	5.60 ft	300.00 ml/min
8/28/2024 12:30 PM	03:00:00	6.48 pH	21.68 °C	1,502.7 µS/cm	0.07 mg/L	51.00 NTU	90.9 mV	5.60 ft	300.00 ml/min
8/28/2024 12:35 PM	03:05:00	6.48 pH	21.88 °C	1,500.6 µS/cm	0.06 mg/L	47.00 NTU	91.2 mV	5.60 ft	300.00 ml/min
8/28/2024 12:40 PM	03:10:00	6.48 pH	21.80 °C	1,502.9 µS/cm	0.07 mg/L	43.00 NTU	91.0 mV	5.60 ft	300.00 ml/min
8/28/2024 12:45 PM	03:15:00	6.49 pH	21.79 °C	1,509.2 µS/cm	0.07 mg/L	23.00 NTU	91.6 mV	5.60 ft	300.00 ml/min
8/28/2024 12:50 PM	03:20:00	6.48 pH	21.53 °C	1,504.0 µS/cm	0.07 mg/L	13.00 NTU	91.4 mV	5.60 ft	300.00 ml/min
8/28/2024 12:55 PM	03:25:00	6.48 pH	21.86 °C	1,502.2 µS/cm	0.07 mg/L	7.73 NTU	91.5 mV	5.60 ft	300.00 ml/min
8/28/2024 1:00 PM	03:30:00	6.48 pH	21.72 °C	1,502.1 µS/cm	0.07 mg/L	6.85 NTU	91.3 mV	5.60 ft	300.00 ml/min

8/28/2024 1:05 PM	03:35:00	6.49 pH	21.77 °C	1,501.8 µS/cm	0.07 mg/L	7.27 NTU	91.2 mV	5.60 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 3:22:11 PM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: BRGWC-32S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.8 ft** **Total Depth: 47.8 ft** **Initial Depth to Water: 41.88 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 42.8 ft** **Estimated Total Volume Pumped: 11.375 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 0 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Final WL below top of pump
Sample Time: 1627
Sunny, 90s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 3:22 PM	00:00	6.37 pH	28.44 °C	453.67 µS/cm	6.60 mg/L	14.70 NTU	33.3 mV	41.88 ft	175.00 ml/min
8/28/2024 3:27 PM	05:00	6.05 pH	23.65 °C	410.34 µS/cm	4.05 mg/L	30.30 NTU	92.7 mV	NA	175.00 ml/min
8/28/2024 3:32 PM	10:00	6.06 pH	23.70 °C	418.57 µS/cm	3.17 mg/L	8.17 NTU	109.1 mV	NA	175.00 ml/min
8/28/2024 3:37 PM	15:00	6.07 pH	23.57 °C	420.12 µS/cm	3.08 mg/L	6.47 NTU	121.4 mV	NA	175.00 ml/min
8/28/2024 3:42 PM	20:00	6.06 pH	23.84 °C	425.00 µS/cm	5.80 mg/L	4.84 NTU	132.3 mV	NA	175.00 ml/min
8/28/2024 3:47 PM	25:00	6.03 pH	25.55 °C	425.97 µS/cm	6.62 mg/L	4.26 NTU	141.4 mV	NA	175.00 ml/min
8/28/2024 3:52 PM	30:00	6.03 pH	25.42 °C	422.46 µS/cm	6.51 mg/L	3.70 NTU	148.2 mV	NA	175.00 ml/min
8/28/2024 3:57 PM	35:00	6.03 pH	26.06 °C	423.17 µS/cm	6.28 mg/L	2.92 NTU	153.4 mV	NA	175.00 ml/min
8/28/2024 4:02 PM	40:00	6.04 pH	25.82 °C	426.62 µS/cm	6.33 mg/L	2.32 NTU	156.1 mV	NA	175.00 ml/min
8/28/2024 4:07 PM	45:00	6.04 pH	25.33 °C	420.12 µS/cm	6.44 mg/L	1.68 NTU	159.5 mV	NA	175.00 ml/min
8/28/2024 4:12 PM	50:00	6.04 pH	25.87 °C	420.02 µS/cm	6.19 mg/L	1.38 NTU	161.0 mV	NA	175.00 ml/min
8/28/2024 4:17 PM	55:00	6.05 pH	25.09 °C	421.93 µS/cm	6.28 mg/L	1.45 NTU	162.9 mV	NA	175.00 ml/min

8/28/2024 4:22 PM	01:00:00	6.05 pH	24.70 °C	415.50 µS/cm	6.28 mg/L	1.70 NTU	165.3 mV	NA	175.00 ml/min
8/28/2024 4:27 PM	01:05:00	6.05 pH	24.98 °C	420.09 µS/cm	6.10 mg/L	1.49 NTU	166.8 mV	NA	175.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2024 9:20:09 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-45 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49 ft** **Total Depth: 59.98 ft** **Initial Depth to Water: 15.95 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54 ft** **Estimated Total Volume Pumped: 8.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 7.44 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 0955. EB-05 here.
Fe2+= 0.0mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 9:20 AM	00:00	6.91 pH	28.55 °C	284.71 µS/cm	6.33 mg/L	3.65 NTU	176.4 mV	15.95 ft	250.00 ml/min
8/29/2024 9:25 AM	05:00	5.90 pH	23.53 °C	384.51 µS/cm	2.11 mg/L	2.50 NTU	166.5 mV	16.51 ft	250.00 ml/min
8/29/2024 9:30 AM	10:00	5.83 pH	23.44 °C	390.14 µS/cm	1.66 mg/L	0.77 NTU	110.1 mV	16.55 ft	250.00 ml/min
8/29/2024 9:35 AM	15:00	5.83 pH	23.64 °C	382.89 µS/cm	1.43 mg/L	0.57 NTU	131.1 mV	16.57 ft	250.00 ml/min
8/29/2024 9:40 AM	20:00	5.81 pH	23.64 °C	385.77 µS/cm	1.48 mg/L	0.51 NTU	142.1 mV	16.57 ft	250.00 ml/min
8/29/2024 9:45 AM	25:00	6.25 pH	23.79 °C	384.36 µS/cm	1.48 mg/L	0.63 NTU	144.3 mV	16.57 ft	250.00 ml/min
8/29/2024 9:50 AM	30:00	6.25 pH	23.85 °C	382.74 µS/cm	1.43 mg/L	0.61 NTU	142.1 mV	16.57 ft	250.00 ml/min
8/29/2024 9:55 AM	35:00	6.26 pH	24.02 °C	383.49 µS/cm	1.44 mg/L	0.61 NTU	134.1 mV	16.57 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/28/2024 3:13:09 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-47 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 84 ft** **Total Depth: 94.4 ft** **Initial Depth to Water: 30.24 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 89 ft** **Estimated Total Volume Pumped: 3.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 4.92 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1538. Sunny, 94 degrees F.
Fe2+= 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 3:13 PM	00:00	6.15 pH	31.00 °C	1,791.4 µS/cm	5.80 mg/L	0.78 NTU	12.9 mV	30.24 ft	150.00 ml/min
8/28/2024 3:18 PM	05:00	5.64 pH	24.40 °C	1,801.5 µS/cm	1.02 mg/L	0.21 NTU	25.6 mV	30.52 ft	150.00 ml/min
8/28/2024 3:23 PM	10:00	5.59 pH	26.18 °C	1,816.5 µS/cm	1.15 mg/L	1.75 NTU	60.5 mV	30.65 ft	150.00 ml/min
8/28/2024 3:28 PM	15:00	5.58 pH	26.45 °C	1,812.2 µS/cm	1.05 mg/L	1.83 NTU	78.0 mV	30.65 ft	150.00 ml/min
8/28/2024 3:33 PM	20:00	5.58 pH	26.60 °C	1,805.4 µS/cm	0.98 mg/L	0.98 NTU	88.5 mV	30.65 ft	150.00 ml/min
8/28/2024 3:38 PM	25:00	5.57 pH	26.56 °C	1,805.2 µS/cm	0.96 mg/L	0.78 NTU	94.8 mV	30.65 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2024 12:40:06 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-50 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 57.6 ft** **Total Depth: 67.6 ft** **Initial Depth to Water: 39.27 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 62 ft** **Estimated Total Volume Pumped: 12.5 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, sample time-1330. Fe2+= 0.0 mg/L. FD-03 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 12:40 PM	00:00	5.25 pH	25.07 °C	1,459.8 µS/cm	3.98 mg/L	1.08 NTU	186.5 mV	39.27 ft	250.00 ml/min
8/29/2024 12:45 PM	05:07	5.10 pH	24.09 °C	1,475.7 µS/cm	1.30 mg/L	0.87 NTU	205.7 mV	39.50 ft	250.00 ml/min
8/29/2024 12:50 PM	10:07	5.22 pH	24.18 °C	1,474.1 µS/cm	0.83 mg/L	1.07 NTU	204.8 mV	39.50 ft	250.00 ml/min
8/29/2024 12:55 PM	15:07	5.23 pH	24.24 °C	1,474.5 µS/cm	0.56 mg/L	1.75 NTU	208.1 mV	39.50 ft	250.00 ml/min
8/29/2024 1:00 PM	20:07	5.22 pH	24.02 °C	1,472.9 µS/cm	0.44 mg/L	1.92 NTU	211.4 mV	39.50 ft	250.00 ml/min
8/29/2024 1:05 PM	25:07	5.22 pH	23.67 °C	1,465.9 µS/cm	0.37 mg/L	1.87 NTU	214.0 mV	39.50 ft	250.00 ml/min
8/29/2024 1:10 PM	30:07	5.21 pH	23.76 °C	1,474.9 µS/cm	0.36 mg/L	1.29 NTU	216.3 mV	39.50 ft	250.00 ml/min
8/29/2024 1:15 PM	35:07	5.21 pH	23.88 °C	1,477.1 µS/cm	0.34 mg/L	1.04 NTU	218.4 mV	39.50 ft	250.00 ml/min
8/29/2024 1:20 PM	40:07	5.21 pH	23.92 °C	1,479.2 µS/cm	0.34 mg/L	0.95 NTU	220.1 mV	39.50 ft	250.00 ml/min
8/29/2024 1:25 PM	45:07	5.21 pH	23.95 °C	1,482.3 µS/cm	0.32 mg/L	1.06 NTU	221.8 mV	39.50 ft	250.00 ml/min
8/29/2024 1:30 PM	50:07	5.20 pH	24.17 °C	1,482.9 µS/cm	0.30 mg/L	0.87 NTU	223.1 mV	39.50 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 3:17:30 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-52I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 66.6 ft** **Total Depth: 76.6 ft** **Initial Depth to Water: 40.87 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 71 ft** **Estimated Total Volume Pumped: 18.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.71 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1632. Cloudy 95 degrees. Fe2+ 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 3:17 PM	00:00	6.76 pH	35.55 °C	377.15 µS/cm	6.36 mg/L	1.29 NTU	126.1 mV	41.22 ft	250.00 ml/min
8/28/2024 3:22 PM	05:00	9.18 pH	22.12 °C	302.04 µS/cm	2.17 mg/L	0.93 NTU	136.3 mV	41.48 ft	250.00 ml/min
8/28/2024 3:27 PM	10:00	11.38 pH	21.28 °C	317.51 µS/cm	1.53 mg/L	0.80 NTU	131.9 mV	41.53 ft	250.00 ml/min
8/28/2024 3:32 PM	15:00	10.62 pH	21.26 °C	324.64 µS/cm	0.83 mg/L	0.61 NTU	127.3 mV	41.56 ft	250.00 ml/min
8/28/2024 3:37 PM	20:00	9.66 pH	21.14 °C	350.34 µS/cm	0.53 mg/L	0.55 NTU	126.5 mV	41.58 ft	250.00 ml/min
8/28/2024 3:42 PM	25:00	8.85 pH	21.10 °C	364.95 µS/cm	0.43 mg/L	0.49 NTU	120.3 mV	41.58 ft	250.00 ml/min
8/28/2024 3:47 PM	30:00	8.20 pH	21.16 °C	377.26 µS/cm	0.38 mg/L	0.44 NTU	113.7 mV	41.58 ft	250.00 ml/min
8/28/2024 3:52 PM	35:00	7.68 pH	21.01 °C	381.13 µS/cm	0.36 mg/L	0.33 NTU	108.8 mV	41.58 ft	250.00 ml/min
8/28/2024 3:57 PM	40:00	7.28 pH	21.07 °C	381.26 µS/cm	0.35 mg/L	0.28 NTU	105.6 mV	41.58 ft	250.00 ml/min
8/28/2024 4:02 PM	45:00	7.00 pH	21.06 °C	382.72 µS/cm	0.33 mg/L	0.21 NTU	103.5 mV	41.58 ft	250.00 ml/min
8/28/2024 4:07 PM	50:00	6.83 pH	21.02 °C	382.07 µS/cm	0.33 mg/L	0.31 NTU	102.2 mV	41.58 ft	250.00 ml/min
8/28/2024 4:12 PM	55:00	6.71 pH	21.10 °C	380.50 µS/cm	0.32 mg/L	0.27 NTU	101.5 mV	41.58 ft	250.00 ml/min
8/28/2024 4:17 PM	01:00:00	6.62 pH	21.00 °C	381.73 µS/cm	0.31 mg/L	0.24 NTU	100.6 mV	41.58 ft	250.00 ml/min
8/28/2024 4:22 PM	01:05:00	6.56 pH	20.76 °C	382.21 µS/cm	0.31 mg/L	0.35 NTU	100.5 mV	41.58 ft	250.00 ml/min

8/28/2024 4:27 PM	01:10:00	6.52 pH	20.84 °C	380.84 µS/cm	0.30 mg/L	0.29 NTU	100.4 mV	41.58 ft	250.00 ml/min
8/28/2024 4:32 PM	01:15:00	6.49 pH	20.65 °C	381.82 µS/cm	0.29 mg/L	0.37 NTU	100.0 mV	41.58 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 4:40:45 PM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: PZ-44 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.1 ft** **Total Depth: 59.1 ft** **Initial Depth to Water: 30.33 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54.1 ft** **Estimated Total Volume Pumped: 10.21 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3.24 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1721
Sunny, 90s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 4:40 PM	00:00	6.23 pH	23.89 °C	189.06 µS/cm	2.02 mg/L	0.66 NTU	171.5 mV	30.33 ft	250.00 ml/min
8/27/2024 4:45 PM	05:00	6.08 pH	23.18 °C	189.15 µS/cm	0.80 mg/L	1.25 NTU	265.2 mV	30.40 ft	250.00 ml/min
8/27/2024 4:50 PM	10:00	6.04 pH	22.96 °C	189.03 µS/cm	0.36 mg/L	0.71 NTU	341.0 mV	30.60 ft	250.00 ml/min
8/27/2024 4:55 PM	15:00	6.03 pH	22.77 °C	189.28 µS/cm	0.29 mg/L	0.66 NTU	400.8 mV	30.60 ft	250.00 ml/min
8/27/2024 5:00 PM	20:00	6.05 pH	22.95 °C	188.77 µS/cm	0.31 mg/L	1.30 NTU	413.1 mV	30.60 ft	250.00 ml/min
8/27/2024 5:06 PM	25:21	6.17 pH	23.59 °C	244.06 µS/cm	1.75 mg/L	2.11 NTU	202.0 mV	30.60 ft	250.00 ml/min
8/27/2024 5:11 PM	30:21	6.20 pH	23.11 °C	198.19 µS/cm	0.28 mg/L	0.70 NTU	197.0 mV	30.60 ft	250.00 ml/min
8/27/2024 5:16 PM	35:21	6.19 pH	22.91 °C	192.23 µS/cm	0.24 mg/L	0.52 NTU	196.5 mV	30.60 ft	250.00 ml/min
8/27/2024 5:21 PM	40:21	6.19 pH	22.74 °C	190.30 µS/cm	0.23 mg/L	0.71 NTU	198.4 mV	30.60 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 1:50:50 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-50D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 98.5 ft** **Total Depth: 108.5 ft** **Initial Depth to Water: 38.83 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 103 ft** **Estimated Total Volume Pumped: 49.1 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 784 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, well purged dry, no sample collected. Allow for overnight recharge.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 1:50 PM	00:00	5.89 pH	42.80 °C	0.12 µS/cm	5.53 mg/L	10.00 NTU	175.7 mV	38.83 ft	200.00 ml/min
8/28/2024 1:55 PM	05:00	6.24 pH	26.00 °C	1,065.0 µS/cm	1.45 mg/L	9.74 NTU	131.8 mV	39.40 ft	200.00 ml/min
8/28/2024 2:00 PM	10:00	6.02 pH	24.77 °C	1,108.4 µS/cm	0.62 mg/L	9.29 NTU	108.5 mV	40.40 ft	200.00 ml/min
8/28/2024 2:05 PM	15:00	5.99 pH	24.81 °C	1,110.7 µS/cm	0.58 mg/L	10.00 NTU	115.4 mV	41.70 ft	200.00 ml/min
8/28/2024 2:10 PM	20:00	6.06 pH	24.86 °C	1,113.2 µS/cm	0.54 mg/L	10.00 NTU	117.4 mV	42.80 ft	200.00 ml/min
8/28/2024 2:15 PM	25:00	6.10 pH	24.56 °C	1,120.7 µS/cm	0.59 mg/L	11.00 NTU	118.2 mV	43.40 ft	200.00 ml/min
8/28/2024 2:20 PM	30:00	6.15 pH	24.53 °C	1,104.2 µS/cm	0.62 mg/L	13.00 NTU	118.7 mV	44.60 ft	200.00 ml/min
8/28/2024 2:25 PM	35:00	6.19 pH	24.54 °C	1,081.1 µS/cm	0.68 mg/L	14.00 NTU	119.0 mV	45.90 ft	200.00 ml/min
8/28/2024 2:30 PM	40:00	6.22 pH	24.35 °C	1,074.6 µS/cm	0.68 mg/L	14.00 NTU	118.4 mV	47.00 ft	200.00 ml/min
8/28/2024 2:35 PM	45:00	6.25 pH	24.28 °C	1,057.5 µS/cm	0.79 mg/L	17.00 NTU	117.4 mV	48.30 ft	200.00 ml/min
8/28/2024 2:40 PM	50:00	6.31 pH	24.36 °C	995.49 µS/cm	0.78 mg/L	13.00 NTU	115.1 mV	49.10 ft	200.00 ml/min
8/28/2024 2:45 PM	55:00	6.41 pH	24.60 °C	895.40 µS/cm	0.75 mg/L	12.00 NTU	111.3 mV	50.20 ft	200.00 ml/min
8/28/2024 2:50 PM	01:00:00	6.51 pH	24.47 °C	806.68 µS/cm	0.75 mg/L	10.00 NTU	107.4 mV	51.70 ft	200.00 ml/min
8/28/2024 2:55 PM	01:05:00	6.58 pH	24.56 °C	729.56 µS/cm	0.76 mg/L	11.00 NTU	102.6 mV	53.10 ft	200.00 ml/min

8/28/2024 3:00 PM	01:10:00	6.64 pH	24.49 °C	654.12 µS/cm	0.74 mg/L	9.33 NTU	97.2 mV	54.80 ft	200.00 ml/min
8/28/2024 3:05 PM	01:15:00	6.67 pH	24.27 °C	595.48 µS/cm	0.82 mg/L	8.29 NTU	92.0 mV	56.00 ft	200.00 ml/min
8/28/2024 3:10 PM	01:20:00	6.68 pH	24.44 °C	547.36 µS/cm	0.80 mg/L	8.42 NTU	87.3 mV	58.90 ft	200.00 ml/min
8/28/2024 3:15 PM	01:25:00	6.69 pH	24.43 °C	504.01 µS/cm	0.91 mg/L	8.11 NTU	82.6 mV	60.50 ft	200.00 ml/min
8/28/2024 3:20 PM	01:30:00	6.69 pH	24.31 °C	466.88 µS/cm	0.83 mg/L	8.57 NTU	76.7 mV	62.80 ft	200.00 ml/min
8/28/2024 3:25 PM	01:35:00	6.69 pH	24.25 °C	425.97 µS/cm	0.75 mg/L	7.49 NTU	60.3 mV	64.00 ft	200.00 ml/min
8/28/2024 3:30 PM	01:40:00	6.70 pH	24.27 °C	391.75 µS/cm	0.84 mg/L	8.31 NTU	33.7 mV	65.80 ft	200.00 ml/min
8/28/2024 3:35 PM	01:45:00	6.71 pH	24.35 °C	382.27 µS/cm	1.01 mg/L	8.04 NTU	8.3 mV	67.10 ft	200.00 ml/min
8/28/2024 3:40 PM	01:50:00	6.71 pH	24.19 °C	393.73 µS/cm	1.13 mg/L	7.79 NTU	-2.1 mV	68.00 ft	200.00 ml/min
8/28/2024 3:45 PM	01:55:00	6.70 pH	24.19 °C	411.94 µS/cm	1.36 mg/L	7.95 NTU	-6.2 mV	69.30 ft	200.00 ml/min
8/28/2024 3:50 PM	02:00:00	6.70 pH	24.30 °C	432.21 µS/cm	1.56 mg/L	7.68 NTU	-7.4 mV	70.90 ft	200.00 ml/min
8/28/2024 3:55 PM	02:05:00	6.70 pH	24.22 °C	456.88 µS/cm	1.71 mg/L	7.42 NTU	-6.9 mV	71.50 ft	200.00 ml/min
8/28/2024 4:00 PM	02:10:00	6.69 pH	24.33 °C	482.13 µS/cm	1.96 mg/L	6.21 NTU	-5.7 mV	72.90 ft	200.00 ml/min
8/28/2024 4:05 PM	02:15:00	6.69 pH	24.22 °C	506.08 µS/cm	2.12 mg/L	6.24 NTU	-3.9 mV	74.10 ft	200.00 ml/min
8/28/2024 4:10 PM	02:20:00	6.69 pH	24.09 °C	530.59 µS/cm	2.45 mg/L	7.69 NTU	-1.7 mV	75.30 ft	200.00 ml/min
8/28/2024 4:15 PM	02:25:00	6.69 pH	24.17 °C	550.97 µS/cm	2.67 mg/L	8.17 NTU	0.5 mV	76.80 ft	200.00 ml/min
8/28/2024 4:20 PM	02:30:00	6.69 pH	24.02 °C	569.31 µS/cm	2.90 mg/L	8.58 NTU	2.6 mV	78.40 ft	200.00 ml/min
8/28/2024 4:25 PM	02:35:00	6.70 pH	23.86 °C	579.55 µS/cm	3.13 mg/L	9.21 NTU	4.4 mV	79.60 ft	200.00 ml/min
8/28/2024 4:30 PM	02:39:17	6.69 pH	24.62 °C	588.93 µS/cm	3.21 mg/L	9.28 NTU	5.5 mV	80.40 ft	200.00 ml/min
8/28/2024 4:35 PM	02:44:17	6.70 pH	24.40 °C	594.28 µS/cm	3.30 mg/L	8.83 NTU	6.5 mV	81.20 ft	200.00 ml/min
8/28/2024 4:40 PM	02:49:17	6.70 pH	24.23 °C	595.63 µS/cm	3.46 mg/L	8.41 NTU	7.3 mV	82.40 ft	200.00 ml/min
8/28/2024 4:45 PM	02:54:17	6.70 pH	26.39 °C	598.13 µS/cm	3.57 mg/L	8.49 NTU	5.5 mV	83.60 ft	200.00 ml/min
8/28/2024 4:50 PM	02:59:17	6.68 pH	28.42 °C	607.31 µS/cm	3.85 mg/L	9.52 NTU	1.5 mV	84.70 ft	200.00 ml/min
8/28/2024 4:55 PM	03:04:17	6.64 pH	24.38 °C	620.53 µS/cm	3.43 mg/L	8.44 NTU	11.5 mV	85.30 ft	200.00 ml/min
8/28/2024 5:00 PM	03:09:17	6.68 pH	23.99 °C	597.35 µS/cm	3.63 mg/L	8.21 NTU	9.6 mV	86.90 ft	250.00 ml/min
8/28/2024 5:05 PM	03:14:17	6.79 pH	22.81 °C	591.17 µS/cm	5.16 mg/L	7.92 NTU	7.7 mV	88.20 ft	250.00 ml/min
8/28/2024 5:10 PM	03:19:17	6.84 pH	22.57 °C	593.15 µS/cm	5.98 mg/L	7.33 NTU	5.1 mV	89.40 ft	250.00 ml/min
8/28/2024 5:15 PM	03:24:17	6.83 pH	22.45 °C	609.53 µS/cm	5.87 mg/L	7.52 NTU	5.1 mV	91.90 ft	250.00 ml/min
8/28/2024 5:20 PM	03:29:17	6.82 pH	22.40 °C	620.82 µS/cm	5.86 mg/L	7.89 NTU	5.1 mV	93.30 ft	250.00 ml/min

8/28/2024 5:25 PM	03:34:17	6.82 pH	22.55 °C	628.34 µS/cm	5.82 mg/L	7.77 NTU	4.6 mV	95.70 ft	250.00 ml/min
8/28/2024 5:30 PM	03:39:17	6.81 pH	22.33 °C	639.82 µS/cm	5.82 mg/L	10.00 NTU	3.9 mV	97.40 ft	250.00 ml/min
8/28/2024 5:35 PM	03:44:17	6.80 pH	22.42 °C	651.04 µS/cm	5.77 mg/L	9.41 NTU	4.1 mV	99.00 ft	250.00 ml/min
8/28/2024 5:40 PM	03:49:17	6.76 pH	22.39 °C	704.64 µS/cm	5.85 mg/L	13.00 NTU	6.2 mV	102.60 ft	250.00 ml/min
8/28/2024 5:45 PM	03:54:17	6.34 pH	22.39 °C	974.71 µS/cm	2.39 mg/L	15.00 NTU	21.9 mV	104.20 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2024 9:30:10 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-50D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 98.5 ft** **Total Depth: 108.5 ft** **Initial Depth to Water: 73.62 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 103 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 37 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, sample time-1000

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 9:30 AM	00:00	6.11 pH	26.39 °C	1,049.5 µS/cm	5.30 mg/L	6.21 NTU	191.9 mV	73.62 ft	100.00 ml/min
8/29/2024 9:35 AM	05:00	6.17 pH	25.39 °C	1,028.0 µS/cm	2.50 mg/L	3.21 NTU	126.9 mV	74.20 ft	100.00 ml/min
8/29/2024 9:40 AM	10:00	6.18 pH	25.36 °C	1,030.5 µS/cm	1.64 mg/L	3.85 NTU	93.5 mV	74.90 ft	100.00 ml/min
8/29/2024 9:45 AM	15:00	6.17 pH	25.46 °C	1,037.2 µS/cm	1.26 mg/L	2.32 NTU	81.1 mV	75.50 ft	100.00 ml/min
8/29/2024 9:50 AM	20:00	6.17 pH	25.65 °C	1,034.5 µS/cm	0.98 mg/L	2.84 NTU	74.1 mV	76.00 ft	100.00 ml/min
8/29/2024 9:55 AM	25:00	6.16 pH	25.88 °C	1,040.3 µS/cm	0.86 mg/L	1.98 NTU	71.1 mV	76.40 ft	100.00 ml/min
8/29/2024 10:00 AM	30:00	6.16 pH	26.04 °C	1,046.9 µS/cm	0.81 mg/L	1.64 NTU	69.7 mV	76.90 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2024 12:55:46 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-51D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 98 ft** **Total Depth: 108.63 ft** **Initial Depth to Water: 41.12 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 104 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 18.12 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1340. Sunny, 94 degrees F.
Fe2+= 1.0mg/L.
FB- 03 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 12:55 PM	00:00	7.26 pH	42.18 °C	842.04 µS/cm	6.74 mg/L	2.73 NTU	113.5 mV	41.12 ft	100.00 ml/min
8/29/2024 1:00 PM	05:00	7.33 pH	42.51 °C	823.33 µS/cm	6.21 mg/L	1.26 NTU	95.7 mV	41.36 ft	100.00 ml/min
8/29/2024 1:05 PM	10:00	7.26 pH	42.96 °C	812.79 µS/cm	4.94 mg/L	0.77 NTU	16.5 mV	41.65 ft	100.00 ml/min
8/29/2024 1:10 PM	15:00	7.15 pH	38.56 °C	791.03 µS/cm	3.13 mg/L	1.39 NTU	-79.4 mV	42.01 ft	100.00 ml/min
8/29/2024 1:15 PM	20:00	7.11 pH	37.20 °C	801.29 µS/cm	3.13 mg/L	4.01 NTU	-99.9 mV	42.07 ft	100.00 ml/min
8/29/2024 1:20 PM	25:00	7.10 pH	39.01 °C	807.37 µS/cm	3.18 mg/L	3.82 NTU	-114.9 mV	42.15 ft	100.00 ml/min
8/29/2024 1:25 PM	30:00	7.08 pH	40.58 °C	813.02 µS/cm	2.96 mg/L	3.48 NTU	-126.6 mV	42.32 ft	100.00 ml/min
8/29/2024 1:30 PM	35:00	7.04 pH	40.24 °C	808.04 µS/cm	2.35 mg/L	3.63 NTU	-133.6 mV	42.58 ft	100.00 ml/min
8/29/2024 1:35 PM	40:00	7.06 pH	40.67 °C	798.58 µS/cm	2.30 mg/L	2.45 NTU	-131.9 mV	42.61 ft	100.00 ml/min
8/29/2024 1:40 PM	45:00	7.06 pH	39.28 °C	796.08 µS/cm	2.33 mg/L	2.29 NTU	-131.5 mV	42.63 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2024 1:40:35 PM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: PZ-51I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 57.5 ft** **Total Depth: 67.5 ft** **Initial Depth to Water: 38.22 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 62.5 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 6.96 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1420
Sunny, 90s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 1:40 PM	00:00	5.42 pH	25.89 °C	1,730.0 µS/cm	3.43 mg/L	0.60 NTU	93.0 mV	39.22 ft	150.00 ml/min
8/29/2024 1:45 PM	05:00	5.31 pH	24.35 °C	1,750.2 µS/cm	1.13 mg/L	0.37 NTU	83.6 mV	39.80 ft	150.00 ml/min
8/29/2024 1:50 PM	10:00	5.33 pH	24.44 °C	1,756.6 µS/cm	0.81 mg/L	0.61 NTU	78.8 mV	39.80 ft	150.00 ml/min
8/29/2024 1:55 PM	15:00	5.34 pH	24.29 °C	1,754.5 µS/cm	0.45 mg/L	0.59 NTU	73.7 mV	39.80 ft	150.00 ml/min
8/29/2024 2:00 PM	20:00	5.35 pH	24.02 °C	1,755.9 µS/cm	0.31 mg/L	0.65 NTU	70.2 mV	39.80 ft	150.00 ml/min
8/29/2024 2:05 PM	25:00	5.37 pH	24.29 °C	1,763.6 µS/cm	0.27 mg/L	0.75 NTU	68.9 mV	39.80 ft	150.00 ml/min
8/29/2024 2:10 PM	30:00	5.38 pH	24.16 °C	1,758.8 µS/cm	0.26 mg/L	0.51 NTU	66.6 mV	39.80 ft	150.00 ml/min
8/29/2024 2:15 PM	35:00	5.38 pH	23.90 °C	1,740.5 µS/cm	0.24 mg/L	0.46 NTU	65.1 mV	39.80 ft	150.00 ml/min
8/29/2024 2:20 PM	40:00	5.39 pH	24.38 °C	1,735.4 µS/cm	0.24 mg/L	0.50 NTU	64.2 mV	39.80 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2024 2:30:18 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-58I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56.9 ft** **Total Depth: 66.9 ft** **Initial Depth to Water: 39.72 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61 ft** **Estimated Total Volume Pumped: 11.2 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, sample time-1515. Fe2+= 7.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 2:30 PM	00:00	3.18 pH	25.94 °C	1,355.5 µS/cm	2.20 mg/L	0.57 NTU	390.2 mV	39.72 ft	250.00 ml/min
8/29/2024 2:35 PM	05:00	3.71 pH	23.91 °C	1,316.5 µS/cm	0.39 mg/L	0.63 NTU	320.9 mV	39.90 ft	250.00 ml/min
8/29/2024 2:40 PM	10:00	3.98 pH	23.60 °C	1,302.8 µS/cm	0.13 mg/L	0.74 NTU	277.8 mV	39.90 ft	250.00 ml/min
8/29/2024 2:45 PM	15:00	3.98 pH	23.32 °C	1,305.0 µS/cm	0.11 mg/L	0.58 NTU	267.7 mV	39.90 ft	250.00 ml/min
8/29/2024 2:50 PM	20:00	3.97 pH	23.37 °C	1,306.9 µS/cm	0.11 mg/L	0.59 NTU	262.4 mV	39.90 ft	250.00 ml/min
8/29/2024 2:55 PM	25:00	3.96 pH	23.47 °C	1,307.4 µS/cm	0.11 mg/L	0.61 NTU	259.0 mV	39.90 ft	250.00 ml/min
8/29/2024 3:00 PM	30:00	3.96 pH	23.41 °C	1,308.6 µS/cm	0.11 mg/L	0.72 NTU	256.4 mV	39.90 ft	250.00 ml/min
8/29/2024 3:05 PM	35:00	3.95 pH	23.52 °C	1,310.7 µS/cm	0.13 mg/L	0.68 NTU	253.6 mV	39.90 ft	250.00 ml/min
8/29/2024 3:10 PM	40:00	3.92 pH	23.46 °C	1,321.7 µS/cm	0.18 mg/L	0.51 NTU	252.4 mV	39.90 ft	250.00 ml/min
8/29/2024 3:15 PM	45:00	3.93 pH	23.17 °C	1,309.2 µS/cm	0.11 mg/L	0.48 NTU	251.8 mV	39.90 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2024 12:04:04 PM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: PZ-60I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 54 ft** **Total Depth: 64 ft** **Initial Depth to Water: 39.43 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 59 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 2.04 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1244
Sunny, 90s
Fe2+ = 1.5 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 12:04 PM	00:00	4.96 pH	32.71 °C	2,334.8 µS/cm	5.83 mg/L	2.27 NTU	261.8 mV	39.43 ft	250.00 ml/min
8/29/2024 12:09 PM	05:00	4.44 pH	23.44 °C	2,447.8 µS/cm	1.05 mg/L	1.03 NTU	309.4 mV	39.60 ft	250.00 ml/min
8/29/2024 12:14 PM	10:00	4.42 pH	23.63 °C	2,470.8 µS/cm	0.37 mg/L	1.02 NTU	325.9 mV	39.60 ft	250.00 ml/min
8/29/2024 12:19 PM	15:00	4.44 pH	23.28 °C	2,466.8 µS/cm	0.18 mg/L	1.34 NTU	324.2 mV	39.60 ft	250.00 ml/min
8/29/2024 12:24 PM	20:00	4.46 pH	23.04 °C	2,463.4 µS/cm	0.17 mg/L	1.08 NTU	331.3 mV	39.60 ft	250.00 ml/min
8/29/2024 12:29 PM	25:00	4.49 pH	23.32 °C	2,456.6 µS/cm	0.17 mg/L	1.06 NTU	334.9 mV	39.60 ft	250.00 ml/min
8/29/2024 12:34 PM	30:00	4.49 pH	22.84 °C	2,447.2 µS/cm	0.17 mg/L	1.05 NTU	330.5 mV	39.60 ft	250.00 ml/min
8/29/2024 12:39 PM	35:00	4.49 pH	22.54 °C	2,447.4 µS/cm	0.16 mg/L	0.72 NTU	335.7 mV	39.60 ft	250.00 ml/min
8/29/2024 12:44 PM	40:00	4.50 pH	23.03 °C	2,438.7 µS/cm	0.17 mg/L	0.80 NTU	339.2 mV	39.60 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2024 11:25:46 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-61I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 68.9 ft** **Total Depth: 78.9 ft** **Initial Depth to Water: 48.62 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 73 ft** **Estimated Total Volume Pumped: 6.4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.48 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1205. Cloudy 91 degrees. Fe2+ 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 11:25 AM	00:00	6.50 pH	32.50 °C	2,234.0 µS/cm	7.10 mg/L	1.17 NTU	123.2 mV	48.88 ft	160.00 ml/min
8/29/2024 11:30 AM	05:00	6.03 pH	24.67 °C	2,094.2 µS/cm	2.24 mg/L	0.56 NTU	127.3 mV	49.05 ft	160.00 ml/min
8/29/2024 11:35 AM	10:00	5.55 pH	23.82 °C	2,107.8 µS/cm	1.89 mg/L	0.36 NTU	129.8 mV	49.08 ft	160.00 ml/min
8/29/2024 11:40 AM	15:00	5.38 pH	23.70 °C	2,115.5 µS/cm	1.32 mg/L	0.39 NTU	131.5 mV	49.10 ft	160.00 ml/min
8/29/2024 11:45 AM	20:00	5.31 pH	23.86 °C	2,111.0 µS/cm	1.43 mg/L	0.29 NTU	132.8 mV	49.10 ft	160.00 ml/min
8/29/2024 11:50 AM	25:00	5.27 pH	23.83 °C	2,105.9 µS/cm	1.11 mg/L	0.33 NTU	134.2 mV	49.10 ft	160.00 ml/min
8/29/2024 11:55 AM	30:00	5.24 pH	23.97 °C	2,112.9 µS/cm	1.28 mg/L	0.44 NTU	135.3 mV	49.10 ft	160.00 ml/min
8/29/2024 12:00 PM	35:00	5.23 pH	24.50 °C	2,136.1 µS/cm	1.17 mg/L	0.40 NTU	136.0 mV	49.10 ft	160.00 ml/min
8/29/2024 12:05 PM	40:00	5.23 pH	24.24 °C	2,119.6 µS/cm	1.16 mg/L	0.52 NTU	137.2 mV	49.10 ft	160.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/29/2024 10:50:06 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-63I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.2 ft** **Total Depth: 59.2 ft** **Initial Depth to Water: 40.3 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 9 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny ,sample time-1130, Fe2+= 1.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 10:50 AM	00:00	6.19 pH	42.32 °C	0.36 µS/cm	5.48 mg/L	8.21 NTU	120.5 mV	40.30 ft	250.00 ml/min
8/29/2024 10:55 AM	05:00	5.82 pH	22.19 °C	435.89 µS/cm	1.22 mg/L	7.05 NTU	91.5 mV	40.90 ft	250.00 ml/min
8/29/2024 11:00 AM	10:00	5.67 pH	21.64 °C	436.92 µS/cm	0.42 mg/L	3.84 NTU	95.2 mV	41.10 ft	250.00 ml/min
8/29/2024 11:05 AM	15:00	5.61 pH	21.63 °C	442.01 µS/cm	0.29 mg/L	2.45 NTU	103.3 mV	41.10 ft	250.00 ml/min
8/29/2024 11:10 AM	20:00	5.64 pH	21.73 °C	473.12 µS/cm	0.20 mg/L	2.05 NTU	106.3 mV	41.10 ft	250.00 ml/min
8/29/2024 11:15 AM	25:00	5.67 pH	21.48 °C	464.84 µS/cm	0.17 mg/L	1.32 NTU	108.7 mV	41.10 ft	250.00 ml/min
8/29/2024 11:20 AM	30:00	5.69 pH	21.28 °C	452.31 µS/cm	0.14 mg/L	1.00 NTU	110.6 mV	41.10 ft	250.00 ml/min
8/29/2024 11:25 AM	35:00	5.70 pH	21.33 °C	451.69 µS/cm	0.13 mg/L	1.03 NTU	112.2 mV	41.10 ft	250.00 ml/min
8/29/2024 11:30 AM	40:00	5.70 pH	21.32 °C	454.99 µS/cm	0.12 mg/L	1.11 NTU	113.8 mV	41.10 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/29/2024 10:50:29 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-64I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 61 ft** **Total Depth: 71.82 ft** **Initial Depth to Water: 39.52 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 66 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 32.76 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1135. Sunny, 90 degrees F.
Fe2+= 0.5mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 10:50 AM	00:00	5.91 pH	37.15 °C	2,623.5 µS/cm	6.25 mg/L	2.51 NTU	116.9 mV	39.52 ft	100.00 ml/min
8/29/2024 10:55 AM	05:00	5.00 pH	29.67 °C	2,666.9 µS/cm	3.12 mg/L	27.20 NTU	308.3 mV	40.67 ft	100.00 ml/min
8/29/2024 11:00 AM	10:00	5.55 pH	28.63 °C	2,612.2 µS/cm	1.96 mg/L	14.10 NTU	274.4 mV	41.23 ft	100.00 ml/min
8/29/2024 11:05 AM	15:00	5.51 pH	29.19 °C	2,613.5 µS/cm	1.58 mg/L	12.60 NTU	285.2 mV	41.52 ft	100.00 ml/min
8/29/2024 11:10 AM	20:00	5.52 pH	29.50 °C	2,599.4 µS/cm	1.30 mg/L	6.44 NTU	267.2 mV	41.61 ft	100.00 ml/min
8/29/2024 11:15 AM	25:00	5.53 pH	29.47 °C	2,581.4 µS/cm	0.63 mg/L	5.99 NTU	262.5 mV	41.61 ft	100.00 ml/min
8/29/2024 11:20 AM	30:00	5.53 pH	29.22 °C	2,547.5 µS/cm	0.46 mg/L	5.52 NTU	266.8 mV	41.98 ft	100.00 ml/min
8/29/2024 11:25 AM	35:00	5.53 pH	29.38 °C	2,528.8 µS/cm	0.41 mg/L	4.13 NTU	239.1 mV	42.21 ft	100.00 ml/min
8/29/2024 11:30 AM	40:00	5.55 pH	29.61 °C	2,519.2 µS/cm	0.36 mg/L	3.50 NTU	237.6 mV	42.24 ft	100.00 ml/min
8/29/2024 11:35 AM	45:00	5.58 pH	29.73 °C	2,519.7 µS/cm	0.34 mg/L	3.24 NTU	227.3 mV	42.25 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 9:40:03 AM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: PZ-68D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 77 ft** **Total Depth: 87 ft** **Initial Depth to Water: 42.46 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 82 ft** **Estimated Total Volume Pumped: 49.4 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 468.48 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Well purged dry, no sample taken
Sunny, 90s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 9:40 AM	00:00	7.10 pH	23.38 °C	699.80 µS/cm	6.04 mg/L	14.70 NTU	189.6 mV	42.46 ft	150.00 ml/min
8/28/2024 9:45 AM	05:00	7.32 pH	21.54 °C	745.19 µS/cm	1.28 mg/L	23.40 NTU	10.3 mV	44.00 ft	150.00 ml/min
8/28/2024 9:50 AM	10:00	7.31 pH	20.80 °C	750.73 µS/cm	0.46 mg/L	10.90 NTU	-12.9 mV	45.10 ft	150.00 ml/min
8/28/2024 9:55 AM	15:00	7.30 pH	20.83 °C	741.08 µS/cm	0.35 mg/L	12.30 NTU	3.0 mV	45.10 ft	150.00 ml/min
8/28/2024 10:00 AM	20:00	7.31 pH	20.84 °C	740.09 µS/cm	0.33 mg/L	9.64 NTU	-7.5 mV	46.50 ft	150.00 ml/min
8/28/2024 10:05 AM	25:00	7.31 pH	20.82 °C	750.88 µS/cm	0.26 mg/L	11.50 NTU	-15.1 mV	48.00 ft	150.00 ml/min
8/28/2024 10:10 AM	30:00	7.27 pH	20.86 °C	734.45 µS/cm	0.23 mg/L	9.39 NTU	-7.5 mV	48.60 ft	150.00 ml/min
8/28/2024 10:15 AM	35:00	7.22 pH	20.99 °C	723.03 µS/cm	0.23 mg/L	8.93 NTU	3.7 mV	49.60 ft	150.00 ml/min
8/28/2024 10:20 AM	40:00	7.20 pH	20.95 °C	719.40 µS/cm	0.23 mg/L	6.39 NTU	11.1 mV	50.40 ft	150.00 ml/min
8/28/2024 10:25 AM	45:00	7.18 pH	21.09 °C	719.60 µS/cm	0.22 mg/L	5.23 NTU	15.6 mV	51.50 ft	150.00 ml/min
8/28/2024 10:30 AM	50:00	7.18 pH	21.06 °C	716.37 µS/cm	0.23 mg/L	5.88 NTU	16.7 mV	52.30 ft	150.00 ml/min
8/28/2024 10:35 AM	55:00	7.17 pH	21.13 °C	715.90 µS/cm	0.24 mg/L	5.34 NTU	15.1 mV	53.10 ft	150.00 ml/min
8/28/2024 10:40 AM	01:00:00	7.17 pH	21.32 °C	718.31 µS/cm	0.24 mg/L	5.71 NTU	15.1 mV	53.80 ft	150.00 ml/min
8/28/2024 10:45 AM	01:05:00	7.17 pH	21.57 °C	719.39 µS/cm	0.25 mg/L	5.96 NTU	12.5 mV	54.70 ft	80.00 ml/min

8/28/2024 10:50 AM	01:10:00	7.16 pH	22.34 °C	720.19 µS/cm	0.28 mg/L	5.16 NTU	10.6 mV	55.20 ft	80.00 ml/min
8/28/2024 10:55 AM	01:15:00	7.14 pH	22.76 °C	719.24 µS/cm	0.24 mg/L	6.95 NTU	9.7 mV	55.60 ft	80.00 ml/min
8/28/2024 11:00 AM	01:20:00	7.16 pH	23.02 °C	713.19 µS/cm	0.29 mg/L	7.83 NTU	8.7 mV	56.20 ft	80.00 ml/min
8/28/2024 11:05 AM	01:25:00	7.17 pH	22.92 °C	711.14 µS/cm	0.41 mg/L	5.97 NTU	6.3 mV	56.70 ft	80.00 ml/min
8/28/2024 11:10 AM	01:30:00	7.18 pH	23.38 °C	708.80 µS/cm	0.63 mg/L	7.06 NTU	4.9 mV	57.20 ft	80.00 ml/min
8/28/2024 11:15 AM	01:35:00	7.21 pH	23.33 °C	699.12 µS/cm	0.94 mg/L	7.67 NTU	2.2 mV	57.70 ft	80.00 ml/min
8/28/2024 11:20 AM	01:40:00	7.23 pH	23.82 °C	696.52 µS/cm	1.18 mg/L	8.07 NTU	1.1 mV	58.00 ft	80.00 ml/min
8/28/2024 11:25 AM	01:45:00	7.24 pH	24.57 °C	700.96 µS/cm	1.42 mg/L	10.30 NTU	-0.0 mV	58.30 ft	80.00 ml/min
8/28/2024 11:30 AM	01:50:00	7.24 pH	24.47 °C	706.86 µS/cm	1.57 mg/L	10.10 NTU	-0.7 mV	58.60 ft	80.00 ml/min
8/28/2024 11:35 AM	01:55:00	7.25 pH	24.11 °C	699.00 µS/cm	1.63 mg/L	12.30 NTU	-1.8 mV	58.90 ft	80.00 ml/min
8/28/2024 11:40 AM	02:00:00	7.25 pH	24.79 °C	707.46 µS/cm	1.68 mg/L	12.30 NTU	-4.5 mV	59.30 ft	80.00 ml/min
8/28/2024 11:45 AM	02:05:00	7.26 pH	24.48 °C	704.06 µS/cm	1.74 mg/L	14.90 NTU	-5.3 mV	59.60 ft	80.00 ml/min
8/28/2024 11:50 AM	02:10:00	7.26 pH	24.36 °C	697.77 µS/cm	1.75 mg/L	12.80 NTU	-7.4 mV	60.00 ft	80.00 ml/min
8/28/2024 11:55 AM	02:15:00	7.27 pH	24.56 °C	704.49 µS/cm	1.78 mg/L	15.50 NTU	-8.5 mV	60.30 ft	80.00 ml/min
8/28/2024 12:00 PM	02:20:00	7.27 pH	24.21 °C	699.50 µS/cm	1.82 mg/L	19.10 NTU	-9.3 mV	60.70 ft	80.00 ml/min
8/28/2024 12:05 PM	02:25:00	7.27 pH	24.74 °C	702.33 µS/cm	1.77 mg/L	18.10 NTU	-10.1 mV	61.00 ft	80.00 ml/min
8/28/2024 12:10 PM	02:30:00	7.28 pH	24.47 °C	697.67 µS/cm	1.84 mg/L	19.50 NTU	-11.9 mV	61.30 ft	80.00 ml/min
8/28/2024 12:15 PM	02:35:00	7.28 pH	24.28 °C	703.61 µS/cm	1.86 mg/L	23.60 NTU	-12.8 mV	61.80 ft	80.00 ml/min
8/28/2024 12:20 PM	02:40:00	7.28 pH	24.31 °C	704.29 µS/cm	1.88 mg/L	20.20 NTU	-12.0 mV	62.00 ft	80.00 ml/min
8/28/2024 12:25 PM	02:45:00	7.29 pH	24.02 °C	701.28 µS/cm	1.88 mg/L	24.20 NTU	-13.8 mV	62.40 ft	80.00 ml/min
8/28/2024 12:30 PM	02:50:00	7.29 pH	24.01 °C	705.56 µS/cm	1.93 mg/L	21.10 NTU	-15.3 mV	62.70 ft	80.00 ml/min
8/28/2024 12:35 PM	02:55:00	7.30 pH	24.36 °C	706.11 µS/cm	1.93 mg/L	21.30 NTU	-16.2 mV	63.10 ft	80.00 ml/min
8/28/2024 12:40 PM	03:00:00	7.30 pH	24.81 °C	706.17 µS/cm	1.97 mg/L	29.30 NTU	-16.7 mV	63.30 ft	50.00 ml/min
8/28/2024 12:45 PM	03:05:00	7.29 pH	25.95 °C	708.29 µS/cm	1.95 mg/L	21.20 NTU	-18.4 mV	63.40 ft	50.00 ml/min
8/28/2024 12:50 PM	03:10:00	7.29 pH	26.51 °C	709.40 µS/cm	1.95 mg/L	20.90 NTU	-19.0 mV	63.50 ft	50.00 ml/min
8/28/2024 12:55 PM	03:15:00	7.28 pH	26.53 °C	708.86 µS/cm	2.05 mg/L	25.30 NTU	-18.9 mV	63.70 ft	50.00 ml/min
8/28/2024 1:00 PM	03:20:00	7.29 pH	25.58 °C	701.88 µS/cm	2.08 mg/L	27.40 NTU	-19.1 mV	63.90 ft	50.00 ml/min
8/28/2024 1:05 PM	03:25:00	7.30 pH	25.19 °C	706.82 µS/cm	2.09 mg/L	35.10 NTU	-21.9 mV	64.70 ft	200.00 ml/min
8/28/2024 1:10 PM	03:30:00	7.31 pH	21.38 °C	702.52 µS/cm	2.30 mg/L	27.90 NTU	-26.0 mV	65.60 ft	200.00 ml/min

8/28/2024 1:15 PM	03:35:00	7.30 pH	21.17 °C	699.04 µS/cm	2.18 mg/L	30.30 NTU	-22.9 mV	66.60 ft	200.00 ml/min
8/28/2024 1:20 PM	03:40:00	7.32 pH	21.12 °C	701.26 µS/cm	2.04 mg/L	47.10 NTU	-21.5 mV	67.70 ft	200.00 ml/min
8/28/2024 1:25 PM	03:45:00	7.33 pH	20.92 °C	694.73 µS/cm	2.21 mg/L	26.30 NTU	-19.0 mV	69.00 ft	200.00 ml/min
8/28/2024 1:30 PM	03:50:00	7.34 pH	21.07 °C	679.05 µS/cm	2.54 mg/L	14.20 NTU	-16.1 mV	69.80 ft	200.00 ml/min
8/28/2024 1:35 PM	03:55:00	7.35 pH	21.07 °C	672.18 µS/cm	2.79 mg/L	11.50 NTU	-14.6 mV	70.80 ft	200.00 ml/min
8/28/2024 1:40 PM	04:00:00	7.36 pH	21.04 °C	672.13 µS/cm	2.92 mg/L	8.42 NTU	-14.6 mV	71.90 ft	200.00 ml/min
8/28/2024 1:45 PM	04:05:00	7.36 pH	21.37 °C	678.32 µS/cm	2.92 mg/L	7.92 NTU	-14.1 mV	73.20 ft	200.00 ml/min
8/28/2024 1:50 PM	04:10:00	7.37 pH	21.45 °C	672.68 µS/cm	2.94 mg/L	9.53 NTU	-15.0 mV	73.90 ft	200.00 ml/min
8/28/2024 1:55 PM	04:15:00	7.37 pH	20.94 °C	673.32 µS/cm	3.01 mg/L	6.11 NTU	-15.8 mV	75.00 ft	200.00 ml/min
8/28/2024 2:00 PM	04:20:00	7.36 pH	21.37 °C	677.78 µS/cm	2.97 mg/L	5.14 NTU	-15.4 mV	76.00 ft	200.00 ml/min
8/28/2024 2:05 PM	04:25:00	7.37 pH	21.28 °C	673.84 µS/cm	2.96 mg/L	4.70 NTU	-16.1 mV	76.40 ft	200.00 ml/min
8/28/2024 2:06 PM	04:26:07	7.37 pH	21.28 °C	673.18 µS/cm	2.93 mg/L	4.16 NTU	-16.3 mV	76.80 ft	200.00 ml/min
8/28/2024 2:11 PM	04:31:07	7.37 pH	21.04 °C	676.96 µS/cm	2.92 mg/L	4.25 NTU	-17.5 mV	77.30 ft	200.00 ml/min
8/28/2024 2:16 PM	04:36:07	7.36 pH	21.28 °C	680.35 µS/cm	2.82 mg/L	3.03 NTU	-18.1 mV	77.30 ft	200.00 ml/min
8/28/2024 2:21 PM	04:41:07	7.36 pH	21.27 °C	674.38 µS/cm	2.81 mg/L	3.51 NTU	-19.4 mV	77.60 ft	200.00 ml/min
8/28/2024 2:26 PM	04:46:07	7.36 pH	22.57 °C	677.01 µS/cm	2.72 mg/L	16.20 NTU	-21.6 mV	78.00 ft	200.00 ml/min
8/28/2024 2:31 PM	04:51:07	7.37 pH	20.65 °C	681.92 µS/cm	2.29 mg/L	19.30 NTU	-28.3 mV	78.80 ft	300.00 ml/min
8/28/2024 2:36 PM	04:56:07	7.38 pH	20.39 °C	677.14 µS/cm	1.38 mg/L	31.20 NTU	-33.1 mV	79.30 ft	300.00 ml/min
8/28/2024 2:41 PM	05:01:07	7.38 pH	20.01 °C	691.81 µS/cm	0.76 mg/L	44.50 NTU	-45.4 mV	79.80 ft	300.00 ml/min
8/28/2024 2:46 PM	05:06:07	7.38 pH	20.51 °C	729.93 µS/cm	0.40 mg/L	21.30 NTU	-52.7 mV	80.60 ft	300.00 ml/min
8/28/2024 2:51 PM	05:11:07	7.37 pH	20.38 °C	733.03 µS/cm	0.32 mg/L	13.70 NTU	-51.1 mV	81.50 ft	300.00 ml/min
8/28/2024 2:56 PM	05:16:07	7.36 pH	20.16 °C	735.34 µS/cm	0.28 mg/L	7.64 NTU	-66.3 mV		300.00 ml/min
8/28/2024 3:01 PM	05:21:07	7.36 pH	20.41 °C	733.64 µS/cm	0.25 mg/L	6.82 NTU	-88.0 mV		300.00 ml/min
8/28/2024 3:06 PM	05:26:07	7.40 pH	20.50 °C	751.63 µS/cm	0.26 mg/L	2.25 NTU	-105.3 mV		300.00 ml/min
8/28/2024 3:11 PM	05:31:07	7.46 pH	21.82 °C	753.78 µS/cm	0.39 mg/L	1.90 NTU	-128.9 mV		300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2024 9:23:37 AM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: PZ-68D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 77 ft** **Total Depth: 87 ft** **Initial Depth to Water: 51.75 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 82 ft** **Estimated Total Volume Pumped: 5.25 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 70.2 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 0958
Sunny, 90s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2024 9:23 AM	00:00	7.15 pH	24.37 °C	735.29 µS/cm	4.84 mg/L	9.42 NTU	202.6 mV	51.75 ft	150.00 ml/min
8/29/2024 9:28 AM	05:00	7.36 pH	21.60 °C	726.64 µS/cm	2.26 mg/L	8.32 NTU	160.5 mV	52.80 ft	150.00 ml/min
8/29/2024 9:33 AM	10:00	7.40 pH	21.18 °C	716.32 µS/cm	2.64 mg/L	11.10 NTU	155.4 mV	53.60 ft	150.00 ml/min
8/29/2024 9:38 AM	15:00	7.41 pH	21.04 °C	711.36 µS/cm	3.59 mg/L	10.00 NTU	155.3 mV	54.30 ft	150.00 ml/min
8/29/2024 9:43 AM	20:00	7.42 pH	21.09 °C	688.52 µS/cm	3.46 mg/L	9.05 NTU	139.3 mV	55.30 ft	150.00 ml/min
8/29/2024 9:48 AM	25:00	7.41 pH	21.13 °C	681.57 µS/cm	3.54 mg/L	9.66 NTU	121.0 mV	56.00 ft	150.00 ml/min
8/29/2024 9:53 AM	30:00	7.39 pH	21.07 °C	673.28 µS/cm	4.09 mg/L	14.00 NTU	115.2 mV	56.80 ft	150.00 ml/min
8/29/2024 9:58 AM	35:00	7.36 pH	21.28 °C	649.25 µS/cm	4.50 mg/L	8.86 NTU	108.4 mV	57.60 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 11:32:08 AM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: PZ-74I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40.88 ft** **Total Depth: 50.88 ft** **Initial Depth to Water: 28.84 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 45.88 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 3.12 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1212
Sunny, 90s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 11:32 AM	00:00	6.52 pH	26.74 °C	620.99 µS/cm	6.32 mg/L	1.26 NTU	131.2 mV	28.84 ft	200.00 ml/min
8/27/2024 11:37 AM	05:00	5.81 pH	21.30 °C	645.32 µS/cm	3.72 mg/L	1.78 NTU	147.2 mV	29.10 ft	200.00 ml/min
8/27/2024 11:42 AM	10:00	5.78 pH	20.54 °C	649.18 µS/cm	3.23 mg/L	8.63 NTU	154.5 mV	29.10 ft	200.00 ml/min
8/27/2024 11:47 AM	15:00	5.78 pH	20.58 °C	649.66 µS/cm	2.97 mg/L	17.90 NTU	162.9 mV	29.10 ft	200.00 ml/min
8/27/2024 11:52 AM	20:00	5.79 pH	20.43 °C	647.40 µS/cm	2.95 mg/L	13.40 NTU	170.6 mV	29.10 ft	200.00 ml/min
8/27/2024 11:57 AM	25:00	5.79 pH	20.28 °C	648.19 µS/cm	2.95 mg/L	12.90 NTU	173.4 mV	29.10 ft	200.00 ml/min
8/27/2024 12:02 PM	30:00	5.81 pH	20.34 °C	651.20 µS/cm	2.92 mg/L	7.75 NTU	175.3 mV	29.10 ft	200.00 ml/min
8/27/2024 12:07 PM	35:00	5.85 pH	20.30 °C	649.53 µS/cm	2.95 mg/L	5.29 NTU	175.1 mV	29.10 ft	200.00 ml/min
8/27/2024 12:12 PM	40:00	5.89 pH	20.18 °C	649.82 µS/cm	2.96 mg/L	4.70 NTU	175.2 mV	29.10 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 1:35:44 PM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: PZ-75I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.4 ft** **Total Depth: 30.4 ft** **Initial Depth to Water: 18.45 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25.4 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.6 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1400
Sunny, 90s
Fe 2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 1:35 PM	00:00	5.70 pH	23.86 °C	460.06 µS/cm	2.64 mg/L	3.11 NTU	164.4 mV	18.45 ft	200.00 ml/min
8/27/2024 1:40 PM	05:00	5.61 pH	23.59 °C	460.47 µS/cm	2.61 mg/L	1.41 NTU	173.4 mV	18.50 ft	200.00 ml/min
8/27/2024 1:45 PM	10:00	5.60 pH	23.58 °C	460.73 µS/cm	2.59 mg/L	0.92 NTU	181.9 mV	18.50 ft	200.00 ml/min
8/27/2024 1:50 PM	15:00	5.60 pH	23.59 °C	460.87 µS/cm	2.59 mg/L	0.44 NTU	186.3 mV	18.50 ft	200.00 ml/min
8/27/2024 1:55 PM	20:00	5.61 pH	23.31 °C	461.38 µS/cm	2.59 mg/L	0.59 NTU	190.7 mV	18.50 ft	200.00 ml/min
8/27/2024 2:00 PM	25:00	5.63 pH	23.19 °C	461.94 µS/cm	2.60 mg/L	0.28 NTU	195.2 mV	18.50 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch Date: 08/27/24

Calibrated By: J. Barnhardt Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 500	689325
Turbidity Meter	HACH 2100 Q	22080D001107

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	46B1376	02/26	PINE
pH (SU)	7.00	46C0526	03/26	PINE
pH (SU)	10.00	46C0600	03/26	PINE
Specific Conductance (µS/cm)	1,413	5GL0664	12/24	PINE
ORP (mV)	240.0	3G20404	09/24	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4172	09/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: 0815		**Time Finish:** 0833			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.77	24.94	± 10%	EPA 2023
pH (SU)	4.00	4.00	25.45	± 0.1	GWMP
pH (SU)	7.00	7.00	25.38	± 0.1	GWMP
pH (SU)	10.00	10.00	25.36	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413	24.87	± 10% of standard	NA
ORP (mV)	~~240.0~~ 228	228	25.32	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.32	± 10% of standard	EPA 2023
	10	10.3		
	20	19.8		
	100	98.2		

Calibration Check					
Time Start 1249		**Time Finish** 1303			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.02	28.85	± 0.1	GWMP
pH (SU)	7.00	7.06	28.87	± 0.1	GWMP
pH (SU)	10.00	10.01	24.94	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1501	28.92	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.34	± 10% of standard	EPA 2023
	10	9.97		
	20	19.8		
	100	104		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch

Date: 7/28/24

Calibrated By: J. Berisford

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 560	689325
Turbidity Meter	HACH 2100Q	22080D00127

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	46B1376	02/26	PINE
pH (SU)	7.00	46C0526	03/26	PINE
pH (SU)	10.00	46C0600	03/26	PINE
Specific Conductance (µS/cm)	1,413	3660664	12/24	PINE
ORP (mV)	240.0	3660404	09/24	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4172	09/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: 0847		**Time Finish:** 0859			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.4	25.77	± 10%	EPA 2023
pH (SU)	4.00	4.07	24.99	± 0.1	GWMP
pH (SU)	7.00	7.01	25.31	± 0.1	GWMP
pH (SU)	10.00	10.00	24.88	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413	25.13	± 10% of standard	NA
ORP (mV)	~~240.0~~ 229	229	24.96	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.29	± 10% of standard	EPA 2023
	10	10.2		
	20	20.7		
	100	102		

Calibration Check					
Time Start 1321		**Time Finish** 1333			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.07	27.17	± 0.1	GWMP
pH (SU)	7.00	6.98	26.99	± 0.1	GWMP
pH (SU)	10.00	9.94	26.94	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1511	2732	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.31	± 10% of standard	EPA 2023
	10	10.1		
	20	19.8		
	100	98.8		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch

Date: 3/29/24

Calibrated By: J. Barnard

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 500	679325
Turbidity Meter	HACH 2100 Q	21080001127

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	46B1376	02/26	PINE
pH (SU)	7.00	46C0526	03/26	PINE
pH (SU)	10.00	46G0600	03/26	PINE
Specific Conductance (µS/cm)	1,413	36L0664	12/24	PINE
ORP (mV)	240.0	3620404	04/24	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4172	09/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: 0815		**Time Finish:** 0829			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.54	24.54	± 10%	EPA 2023
pH (SU)	4.00	4.00	26.14	± 0.1	GWMP
pH (SU)	7.00	7.00	26.51	± 0.1	GWMP
pH (SU)	10.00	10.00	26.45	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413	26.93	± 10% of standard	NA
ORP (mV)	~~240.0~~ 226	226	26.93	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.134	± 10% of standard	EPA 2023
	10	10.2		
	20	20		
	100	99.3		

Calibration Check					
Time Start 1213		**Time Finish** 1225			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.07	28.92	± 0.1	GWMP
pH (SU)	7.00	7.06	28.74	± 0.1	GWMP
pH (SU)	10.00	10.63	28.95	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1501	29.17	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.35	± 10% of standard	EPA 2023
	10	10.1		
	20	20.1		
	100	99.1		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AP

Date: 08-27-24

Calibrated By: J. May

Field Conditions: Sunny, 80s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ Aqua Troll	863127
Turbidity Meter	Hach 2100Q	24010D000426

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI Water	—	—
pH (SU)	4.00	4GE0127	05/26	PINE
pH (SU)	7.00	4GD1067	04/26	PINE
pH (SU)	10.00	4GC0600	03/26	PINE
Specific Conductance (µS/cm)	1,413	4GE0258	05/25	PINE
ORP (mV)	240.0	4GE1370	02/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI Water	—	—
	~~20~~ 20	A33603	04/25	Hach
	~~20~~ 10	A4029	05/25	Hach
	100	A4002	04/25	Hach

Calibration					
Time Start: 0820		**Time Finish:** 0830			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.13	24.45	± 10%	EPA 2023
pH (SU)	4.00	4.00	23.93	± 0.1	GWMP
pH (SU)	7.00	7.00	24.07	± 0.1	GWMP
pH (SU)	10.00	10.00	23.76	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	24.01	± 10% of standard	NA
ORP (mV)	240.0	230.5	24.21	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.06	± 10% of standard	EPA 2023
	10	9.99		
	20	20.0		
	100	99.8		

Calibration Check					
Time Start 1255		**Time Finish** 1305			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	31.29	± 0.1	GWMP
pH (SU)	7.00	6.99	31.00	± 0.1	GWMP
pH (SU)	10.00	9.95	31.35	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	31.20	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.07	± 10% of standard	EPA 2023
	10	9.89		
	20	20.2		
	100	99.2		

Notes:

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Plant Brandt AP BCD Date: 08-28-24

Calibrated By: J. May Field Conditions: Sunny, 80s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll	863127
Turbidity Meter	Hach 2100Q	24010D000426

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GE0127	05/26	PINE
pH (SU)	7.00	4GD1067	04/26	PINE
pH (SU)	10.00	4GL0600	03/26	PINE
Specific Conductance (µS/cm)	1,413	4GE0258	05/25	PINE
ORP (mV)	240.0	4GE1370	02/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4079	05/25	HACH
	20	A3363	04/25	HACH
	100	A4002	04/25	HACH

Calibration					
Time Start: 0840		**Time Finish:** 0855			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.0	23.54	± 10%	EPA 2023
pH (SU)	4.00	4.00	23.104	± 0.1	GWMP
pH (SU)	7.00	7.00	23.32	± 0.1	GWMP
pH (SU)	10.00	10.00	23.48	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	23.50	± 10% of standard	NA
ORP (mV)	240.0	227.8	24.25	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.08	± 10% of standard	EPA 2023
	10	10.1		
	20	20.1		
	100	101		

Calibration Check					
Time Start 1710		**Time Finish** 1720			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	31.15	± 0.1	GWMP
pH (SU)	7.00	7.00	31.23	± 0.1	GWMP
pH (SU)	10.00	9.95	32.00	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	32.30	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.11	± 10% of standard	EPA 2023
	10	10.0		
	20	19.9		
	100	99.9		

Notes:

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Plant Branch AP Date: 08-29-24

Calibrated By: J. May Field Conditions: Sunny, 80s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll	863127
Turbidity Meter	Hach 2100Q	24010D000426

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GE0127	05/26	PINE
pH (SU)	7.00	4GD1007	04/26	PINE
pH (SU)	10.00	4GC0600	03/26	PINE
Specific Conductance (µS/cm)	1,413	4GF0258	05/25	PINE
ORP (mV)	240.0	4GE1370	02/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4029	05/25	HACH
	20	A33303	04/25	HACH
	100	A4002	04/25	HACH

Calibration					
Time Start: 0820		**Time Finish:** 0836			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.00	24.30	± 10%	EPA 2023
pH (SU)	4.00	4.00	25.34	± 0.1	GWMP
pH (SU)	7.00	7.00	25.98	± 0.1	GWMP
pH (SU)	10.00	10.00	25.77	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	26.02	± 10% of standard	NA
ORP (mV)	240.0	227.4	26.33	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.09	± 10% of standard	EPA 2023
	10	10.0		
	20	20.1		
	100	99.8		

Calibration Check					
Time Start 1320		**Time Finish** 1335			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.02	33.35	± 0.1	GWMP
pH (SU)	7.00	6.99	31.91	± 0.1	GWMP
pH (SU)	10.00	9.91	33.01	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	32.97	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.07	± 10% of standard	EPA 2023
	10	10.1		
	20	19.7		
	100	99.5		

Notes:

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Plant Branch

Date: 8-28-24

Calibrated By: T. Goble

Field Conditions: Clear 74°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	SmarTroll	965658
Turbidity Meter	HACH	220800D000803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GE~~0127~~	5/26	PINE
pH (SU)	7.00	3GJ0919	10/25	PINE
pH (SU)	10.00	3GL0168	12/25	PINE
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	PINE
ORP (mV)	240.0	3GL0404	9/24	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4172	9/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: 0830		**Time Finish:** 0855			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	107.54	23.56	± 10%	EPA 2023
pH (SU)	4.00	4.00	26.12	± 0.1	GWMP
pH (SU)	7.00	7.00	26.49	± 0.1	GWMP
pH (SU)	10.00	10.00	26.67	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1431	25.19	± 10% of standard	NA
ORP (mV)	240.0	247	26.60	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.27	± 10% of standard	EPA 2023
	10	10.3		
	20	20.3		
	100	101		

Calibration Check					
Time Start 1300		**Time Finish** 1315			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.04	26.19	± 0.1	GWMP
pH (SU)	7.00	7.02	26.27	± 0.1	GWMP
pH (SU)	10.00	10.02	25.22	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1439	25.69	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.12	± 10% of standard	EPA 2023
	10	10.1		
	20	20.3		
	100	101		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch

Date: 8-29-24

Calibrated By: T. Goble

Field Conditions: Cloudy 76°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	SmarTroll	965659
Turbidity Meter	HACH	22080D000803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GE0127	5/26	PINE
pH (SU)	7.00	3GJ0918	10/25	PINE
pH (SU)	10.00	3GL0168	12/25	PINE
Specific Conductance (µS/cm)	1,413	4GF0677	5/25	PINE
ORP (mV)	240.0	4GG0438	4/25	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4172	9/25	HACH
	20	A4183	10/25	HACH
	100	A4177	10/25	HACH

Calibration					
Time Start: 0820		**Time Finish:** 0840			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.93	24.12	± 10%	EPA 2023
pH (SU)	4.00	4.00	26.74	± 0.1	GWMP
pH (SU)	7.00	7.00	27.31	± 0.1	GWMP
pH (SU)	10.00	9.95	27.56	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413	25.13	± 10% of standard	NA
ORP (mV)	240.0	239.2	27.34	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.18	± 10% of standard	EPA 2023
	10	10.3		
	20	20.4		
	100	101		

Calibration Check					
Time Start 1230		**Time Finish** 1245			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.00	26.35	± 0.1	GWMP
pH (SU)	7.00	7.02	26.52	± 0.1	GWMP
pH (SU)	10.00	10.02	24.61	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1431	25.31	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.21	± 10% of standard	EPA 2023
	10	10.2		
	20	20.2		
	100	102		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AP-E/BCD Date: 8/28/24

Calibrated By: D. Johnson Field Conditions: 75°f, Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	TROLL	884189 (rental)
Turbidity Meter	Hach	18090C069298 (rental)

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GB1376	2/26	PINE
pH (SU)	7.00	4G20526	3/26	PINE
pH (SU)	10.00	3GJ0041	10/25	PINE
Specific Conductance (µS/cm)	1,413	4GE0258	5/25	PINE
ORP (mV)	240.0	3GL0404	9/24	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4201	10/25	HACH
	20	A4201	10/25	HACH
	100	A4095	7/25	HACH

Calibration					
Time Start: 0840		**Time Finish:** 0857			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.40	24.76	± 10%	EPA 2023
pH (SU)	4.00	4.00	25.40	± 0.1	GWMP
pH (SU)	7.00	7.00	25.49	± 0.1	GWMP
pH (SU)	10.00	10.00	25.38	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1410	25.00	± 10% of standard	NA
ORP (mV)	240.0	232.6	25.82	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	9.98		
	20	20.0		
	100	100		

Calibration Check					
Time Start 1200		**Time Finish** 1210			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	31.86	± 0.1	GWMP
pH (SU)	7.00	6.99	31.90	± 0.1	GWMP
pH (SU)	10.00	9.98	31.83	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1412	31.80	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.12	± 10% of standard	EPA 2023
	10	9.84		
	20	20.2		
	100	99.1		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AP-BCD Date: 8/29/24

Calibrated By: D. Johnson Field Conditions: Sunny, 76° F.

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Troll	884189 (rental)
Turbidity Meter	Hach	180900069298 (rental)

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GB1376	2/26	PINE
pH (SU)	7.00	4GC0526	3/26	PINE
pH (SU)	10.00	3GJ0258	10/25	PINE
Specific Conductance (µS/cm)	1,413	4GE0258	5/25	PINE
ORP (mV)	240.0	3GL0404	9/24	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	AH201	10/25	HACH
	20	AH201	10/25	HACH
	100	AH095	7/25	HACH

Calibration					
Time Start: 0830		**Time Finish:** 0840			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.25	25.03	± 10%	EPA 2023
pH (SU)	4.00	4.00	25.81	± 0.1	GWMP
pH (SU)	7.00	7.00	26.03	± 0.1	GWMP
pH (SU)	10.00	10.00	25.76	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1410	25.97	± 10% of standard	NA
ORP (mV)	240.0	230.2	25.99	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.18	± 10% of standard	EPA 2023
	10	10.4		
	20	20.1		
	100	100		

Calibration Check					
Time Start 1210		**Time Finish** 1216			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.03	30.84	± 0.1	GWMP
pH (SU)	7.00	7.00	30.85	± 0.1	GWMP
pH (SU)	10.00	9.94	31.44	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1416	39.34	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.11	± 10% of standard	EPA 2023
	10	10.2		
	20	20.2		
	100	99.3		

Notes:

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	884189
Created	8/28/2024

Sensor **RDO**

Serial Number	1114594
Last Calibrated	8/28/2024

Calibration Details

Slope	1.0806775
Offset	-0.00 mg/L

Calibration point 100%

Concentration	7.62 mg/L
Temperature	24.76 °C
Barometric Pressure	1,006.1 mbar

Sensor **Conductivity**

Serial Number	884189
Last Calibrated	8/28/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.856
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor **Level**

Serial Number	879249
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21633
Last Calibrated	8/28/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	151.3 mV
Temperature	25.24 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	5.2 mV
Temperature	25.37 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-165.9 mV
Temperature	25.01 °C

Slope and Offset 1

Slope	-48.7 mV/pH
Offset	5.2 mV

Slope and Offset 2

Slope	-57.02 mV/pH
Offset	5.2 mV

ORP

ORP Solution	Zobell's
Offset	8.4 mV
Temperature	25.41 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	884189
Created	8/29/2024

Sensor	**RDO**
Serial Number	1114594
Last Calibrated	8/29/2024

Calibration Details

Slope	1.0883331
Offset	-0.00 mg/L

Calibration point 100%

Concentration	7.48 mg/L
Temperature	25.44 °C
Barometric Pressure	1,006.1 mbar

Sensor	**Conductivity**
Serial Number	884189
Last Calibrated	8/29/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.805
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879249
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21633
Last Calibrated	8/29/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	161.3 mV
Temperature	25.81 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	7.1 mV
Temperature	26.03 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-173.9 mV
Temperature	25.76 °C

Slope and Offset 1

Slope	-51.38 mV/pH
Offset	7.1 mV

Slope and Offset 2

Slope	-60.34 mV/pH
Offset	7.1 mV

ORP

ORP Solution	Zobell's
Offset	10.5 mV
Temperature	25.99 °C

Calibration Report

Instrument	Aqua TROLL 500
Serial Number	689325
Created	8/27/2024

Sensor **Conductivity**

Serial Number	1096524
Last Calibrated	8/27/2024

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.684
Offset	0.00 µS/cm
Reference Temperature	25.00 °C

Calibration Point 1

Pre Measurement

Actual Conductivity	1,397.1 µS/cm
Specific Conductivity	1,400.4 µS/cm

Post Measurement

Actual Conductivity	1,409.7 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor **RDO**

Serial Number	1014555
Last Calibrated	8/27/2024

Calibration Details

Slope	0.9996724
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.22 mg/L
Pre Measurement	97.77 %Sat
Post Measurement	100.00 %Sat
Temperature	24.95 °C
Barometric Pressure	1,007.0 mbar

Sensor	**pH/ORP**
Serial Number	996836
Last Calibrated	8/27/2024

Calibration Details

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	163.2 mV
Temperature	25.45 °C

Pre Measurement

pH	4.06 pH
pH mV	163.1 mV

Post Measurement

pH	4.00 pH
pH mV	163.4 mV

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	4.2 mV
Temperature	25.38 °C

Pre Measurement

pH	7.01 pH
pH mV	4.2 mV

Post Measurement

pH	7.00 pH
pH mV	4.2 mV

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-167.8 mV
Temperature	25.36 °C

Pre Measurement

pH	9.98 pH
pH mV	-167.3 mV

Post Measurement

pH	10.00 pH
pH mV	-168.0 mV

Slope and Offset 1

Slope	-53 mV/pH
Offset	4.2 mV

Slope and Offset 2

Slope	-57.32 mV/pH

Offset	4.2 mV

ORP

ORP Solution	Zobell's
Offset	12.6 mV
Temperature	25.32 °C
Pre Measurement	226.0 mV
Post Measurement	228.7 mV

Calibration Report

Instrument	Aqua TROLL 500
Serial Number	689325
Created	8/28/2024

Sensor **Conductivity**

Serial Number	1096524
Last Calibrated	8/28/2024

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.662
Offset	0.00 µS/cm
Reference Temperature	25.00 °C

Calibration Point 1

Pre Measurement

Actual Conductivity	1,463.2 µS/cm
Specific Conductivity	1,459.6 µS/cm

Post Measurement

Actual Conductivity	1,416.4 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor **RDO**

Serial Number	1014555
Last Calibrated	8/28/2024

Calibration Details

Slope	0.98492163
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.29 mg/L
Pre Measurement	101.46 %Sat
Post Measurement	100.00 %Sat
Temperature	25.22 °C
Barometric Pressure	1,005.8 mbar

Sensor	**pH/ORP**
Serial Number	996836
Last Calibrated	8/28/2024

Calibration Details

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	163.9 mV
Temperature	24.99 °C

Pre Measurement

pH	3.98 pH
pH mV	163.9 mV

Post Measurement

pH	4.00 pH
pH mV	163.9 mV

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	5.6 mV
Temperature	25.31 °C

Pre Measurement

pH	6.97 pH
pH mV	5.7 mV

Post Measurement

pH	7.00 pH
pH mV	5.6 mV

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-167.1 mV
Temperature	24.88 °C

Pre Measurement

pH	9.98 pH
pH mV	-166.6 mV

Post Measurement

pH	10.00 pH
pH mV	-167.0 mV

Slope and Offset 1

Slope	-52.76 mV/pH
Offset	5.6 mV

Slope and Offset 2

Slope	-57.57 mV/pH

Offset	5.6 mV

ORP

ORP Solution	Zobell's
Offset	11.4 mV
Temperature	24.96 °C
Pre Measurement	230.4 mV
Post Measurement	229.2 mV

Calibration Report

Instrument	Aqua TROLL 500
Serial Number	689325
Created	8/29/2024

Sensor **Conductivity**

Serial Number	1096524
Last Calibrated	8/29/2024

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.663
Offset	0.00 µS/cm
Reference Temperature	25.00 °C

Calibration Point 1

Pre Measurement

Actual Conductivity	1,461.5 µS/cm
Specific Conductivity	1,409.6 µS/cm

Post Measurement

Actual Conductivity	1,465.0 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor **RDO**

Serial Number	1014555
Last Calibrated	8/29/2024

Calibration Details

Slope	0.9718852
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.40 mg/L
Pre Measurement	101.54 %Sat
Post Measurement	100.00 %Sat
Temperature	25.43 °C
Barometric Pressure	1,008.8 mbar

Sensor	**pH/ORP**
Serial Number	996836
Last Calibrated	8/29/2024

Calibration Details

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	160.3 mV
Temperature	26.14 °C

Pre Measurement

pH	4.08 pH
pH mV	160.2 mV

Post Measurement

pH	4.00 pH
pH mV	160.9 mV

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	3.5 mV
Temperature	26.51 °C

Pre Measurement

pH	7.04 pH
pH mV	3.5 mV

Post Measurement

pH	7.00 pH
pH mV	3.5 mV

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-168.3 mV
Temperature	26.45 °C

Pre Measurement

pH	10.01 pH
pH mV	-168.1 mV

Post Measurement

pH	10.00 pH
pH mV	-169.2 mV

Slope and Offset 1

Slope	-52.27 mV/pH
Offset	3.5 mV

Slope and Offset 2

Slope	-57.28 mV/pH
Offset	3.5 mV

ORP

ORP Solution	Zobell's
Offset	12.8 mV
Temperature	26.93 °C
Pre Measurement	225.2 mV
Post Measurement	226.6 mV

Calibration Report

Instrument	Aqua TROLL 500
Serial Number	863127
Created	8/27/2024

Sensor **Conductivity**

Serial Number	1035050
Last Calibrated	8/27/2024

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.858
Offset	0.00 µS/cm
Reference Temperature	25.00 °C

Calibration Point 1

Pre Measurement

Actual Conductivity	1,533.7 µS/cm
Specific Conductivity	1,563.6 µS/cm

Post Measurement

Actual Conductivity	1,386.0 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor **RDO**

Serial Number	909613
Last Calibrated	8/27/2024

Calibration Details

Slope	1.0296766
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.04 mg/L
Pre Measurement	98.18 %Sat
Post Measurement	100.00 %Sat
Temperature	24.50 °C
Barometric Pressure	1,006.3 mbar

Sensor	**pH/ORP**
Serial Number	996677
Last Calibrated	8/27/2024

Calibration Details

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	165.1 mV
Temperature	23.93 °C

Pre Measurement

pH	4.01 pH
pH mV	165.1 mV

Post Measurement

pH	4.00 pH
pH mV	164.5 mV

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-4.7 mV
Temperature	24.07 °C

Pre Measurement

pH	7.00 pH
pH mV	-4.7 mV

Post Measurement

pH	7.00 pH
pH mV	-4.7 mV

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-169.0 mV
Temperature	23.76 °C

Pre Measurement

pH	9.97 pH
pH mV	-168.8 mV

Post Measurement

pH	10.00 pH
pH mV	-168.3 mV

Slope and Offset 1

Slope	-56.6 mV/pH
Offset	-4.7 mV

Slope and Offset 2

Slope	-54.77 mV/pH

Offset	-4.7 mV

ORP

ORP Solution	Zobell's
Offset	0.1 mV
Temperature	24.40 °C
Pre Measurement	231.5 mV
Post Measurement	229.9 mV

Calibration Report

Instrument	Aqua TROLL 500
Serial Number	863127
Created	8/28/2024

Sensor **Conductivity**

Serial Number	1035050
Last Calibrated	8/28/2024

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.818
Offset	0.00 µS/cm
Reference Temperature	25.00 °C

Calibration Point 1

Pre Measurement

Actual Conductivity	1,174.4 µS/cm
Specific Conductivity	1,212.3 µS/cm

Post Measurement

Actual Conductivity	1,368.8 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor **RDO**

Serial Number	909613
Last Calibrated	8/28/2024

Calibration Details

Slope	0.99460727
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.47 mg/L
Pre Measurement	104.24 %Sat
Post Measurement	100.00 %Sat
Temperature	23.54 °C
Barometric Pressure	1,005.9 mbar

Sensor	**pH/ORP**
Serial Number	996677
Last Calibrated	8/28/2024

Calibration Details

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	165.7 mV
Temperature	23.64 °C

Pre Measurement

pH	4.00 pH
pH mV	165.7 mV

Post Measurement

pH	4.00 pH
pH mV	165.0 mV

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-2.9 mV
Temperature	23.32 °C

Pre Measurement

pH	6.99 pH
pH mV	-2.9 mV

Post Measurement

pH	7.00 pH
pH mV	-2.9 mV

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-169.1 mV
Temperature	23.48 °C

Pre Measurement

pH	10.07 pH
pH mV	-168.9 mV

Post Measurement

pH	10.00 pH
pH mV	-168.2 mV

Slope and Offset 1

Slope	-56.21 mV/pH
Offset	-2.9 mV

Slope and Offset 2

Slope	-55.39 mV/pH

Offset -2.9 mV

ORP

ORP Solution	Zobell's
Offset	0.2 mV
Temperature	24.25 °C
Pre Measurement	227.8 mV
Post Measurement	230.1 mV

Calibration Report

Instrument	Aqua TROLL 500
Serial Number	863127
Created	8/29/2024

Sensor **Conductivity**

Serial Number	1035050
Last Calibrated	8/29/2024

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.78
Offset	0.00 µS/cm
Reference Temperature	25.00 °C

Calibration Point 1

Pre Measurement

Actual Conductivity	1,520.6 µS/cm
Specific Conductivity	1,484.4 µS/cm

Post Measurement

Actual Conductivity	1,447.5 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor **RDO**

Serial Number	909613
Last Calibrated	8/29/2024

Calibration Details

Slope	0.9946833
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.36 mg/L
Pre Measurement	100.01 %Sat
Post Measurement	100.00 %Sat
Temperature	24.30 °C
Barometric Pressure	1,006.4 mbar

Sensor	**pH/ORP**
Serial Number	996677
Last Calibrated	8/29/2024

Calibration Details

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	164.0 mV
Temperature	25.34 °C

Pre Measurement

pH	4.05 pH
pH mV	164.0 mV

Post Measurement

pH	4.00 pH
pH mV	164.2 mV

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-4.4 mV
Temperature	25.98 °C

Pre Measurement

pH	7.03 pH
pH mV	-4.3 mV

Post Measurement

pH	7.00 pH
pH mV	-4.4 mV

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-167.6 mV
Temperature	25.77 °C

Pre Measurement

pH	9.94 pH
pH mV	-167.4 mV

Post Measurement

pH	10.00 pH
pH mV	-168.0 mV

Slope and Offset 1

Slope	-56.13 mV/pH
Offset	-4.4 mV

Slope and Offset 2

Slope	-54.41 mV/pH

Offset	-4.4 mV

ORP

ORP Solution	Zobell's
Offset	2.0 mV
Temperature	26.33 °C
Pre Measurement	225.6 mV
Post Measurement	227.4 mV

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965658
Created	8/28/2024

Sensor **RDO**

Serial Number	964434
Last Calibrated	8/28/2024

Calibration Details

Slope	1.0447013
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.06 mg/L
Temperature	23.56 °C
Barometric Pressure	1,006.0 mbar

Sensor **Conductivity**

Serial Number	965658
Last Calibrated	8/28/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.852
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor **Level**

Serial Number	976298
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22007
Last Calibrated	8/28/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	162.5 mV
Temperature	26.12 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	10.5 mV
Temperature	26.49 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-133.7 mV
Temperature	26.67 °C

Slope and Offset 1

Slope	-50.67 mV/pH
Offset	10.5 mV

Slope and Offset 2

Slope	-48.05 mV/pH
Offset	10.5 mV

ORP

ORP Solution	ORP Standard
Offset	19.2 mV
Temperature	26.60 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965658
Created	8/29/2024

Sensor **RDO**

Serial Number	964434
Last Calibrated	8/29/2024

Calibration Details

Slope	1.0464802
Offset	-0.00 mg/L

Calibration point 100%

Concentration	7.96 mg/L
Temperature	24.12 °C
Barometric Pressure	1,005.0 mbar

Sensor **Conductivity**

Serial Number	965658
Last Calibrated	8/29/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.925
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor **Level**

Serial Number	976298
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22007
Last Calibrated	8/29/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	158.1 mV
Temperature	26.78 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	11.0 mV
Temperature	27.31 °C

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-133.0 mV
Temperature	27.56 °C

Slope and Offset 1

Slope	-49.01 mV/pH
Offset	11.0 mV

Slope and Offset 2

Slope	-48.81 mV/pH
Offset	11.0 mV

ORP

ORP Solution	ORP Standard
Offset	19.8 mV
Temperature	27.34 °C

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

May 14, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Branch Ash Ponds Upgradient-Total Metals*
Work Order: 709660

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 19, 2025. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 709660 in the left-hand footer of the data report. This package has been updated to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
709660001	BRA-BRGWA-5I	Ground Water	02/18/25 10:02	02/19/25 13:10
709660002	BRA-BRGWA-5S	Ground Water	02/18/25 09:59	02/19/25 13:10
709660003	BRA-BRGWA-2I	Ground Water	02/18/25 10:30	02/19/25 13:10
709660004	BRA-BRGWA-2S	Ground Water	02/18/25 11:25	02/19/25 13:10
709660005	BRA-BRGWA-6S	Ground Water	02/18/25 13:05	02/19/25 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	20-FEB-2025
SW846 7470A Prep	21-FEB-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	20-FEB-2025

SM 2320B	19-FEB-2025
SM 2540C	24-FEB-2025
SM 2540C	25-FEB-2025
SW846 3005A/6020B	04-MAR-2025
SW846 7470A	24-FEB-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC002 Georgia Power Company

Client SDG: 709660 GEL Work Order: 709660

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-5I
Sample ID: 709660001
Matrix: WG
Collect Date: 18-FEB-25 10:02
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.05	0.0670	0.200	mg/L		1	CWW	02/20/25	0224	2753353	1
Fluoride	J	0.0553	0.0330	0.100	mg/L		1					
Sulfate		3.16	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1403	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0512	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0320	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00591	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		16.9	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00451	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.84	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00176	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00141	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.48	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.78	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		106	2.38	10.0	mg/L			RR4	02/24/25	1332	2755063	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.3	0.725	2.00	mg/L			JW2	02/19/25	1529	2753332	5
Bicarbonate alkalinity (CaCO3)		79.3	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-5I
Sample ID: 709660001
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-5S
Sample ID: 709660002
Matrix: WG
Collect Date: 18-FEB-25 09:59
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.34	0.0670	0.200	mg/L		1	CWW	02/20/25	0256	2753353	1
Fluoride	J	0.0749	0.0330	0.100	mg/L		1					
Sulfate		0.543	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1405	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0515	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0334	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00548	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		16.5	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00705	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0663	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.99	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00361	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.538	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.04	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		92.0	2.38	10.0	mg/L			RR4	02/25/25	1441	2755621	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.7	0.725	2.00	mg/L			JW2	02/19/25	1530	2753332	5
Bicarbonate alkalinity (CaCO3)		77.7	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-5S
Sample ID: 709660002
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-2I
Sample ID: 709660003
Matrix: WG
Collect Date: 18-FEB-25 10:30
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.09	0.0670	0.200	mg/L		1	CWW	02/20/25	0327	2753353	1
Fluoride	J	0.0566	0.0330	0.100	mg/L		1					
Sulfate		3.07	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1406	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0518	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00462	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		13.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000715	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0731	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00603	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.64	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0134	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000375	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.24	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.89	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		84.0	2.38	10.0	mg/L			RR4	02/25/25	1441	2755621	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		69.9	0.725	2.00	mg/L			JW2	02/19/25	1531	2753332	5
Bicarbonate alkalinity (CaCO3)		69.9	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-2I
Sample ID: 709660003
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-2S
Sample ID: 709660004
Matrix: WG
Collect Date: 18-FEB-25 11:25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.09	0.0670	0.200	mg/L		1	CWW	02/20/25	0359	2753353	1
Fluoride	J	0.0709	0.0330	0.100	mg/L		1					
Sulfate	J	0.341	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1408	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0522	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0131	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.76	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00765	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00111	0.000300	0.00100	mg/L	1.00	1					
Iron		0.191	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.56	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0434	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.467	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.56	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		44.0	2.38	10.0	mg/L			RR4	02/25/25	1441	2755621	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		40.8	0.725	2.00	mg/L			JW2	02/19/25	1532	2753332	5
Bicarbonate alkalinity (CaCO3)		40.8	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-2S
Sample ID: 709660004
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-6S
Sample ID: 709660005
Matrix: WG
Collect Date: 18-FEB-25 13:05
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.25	0.0670	0.200	mg/L		1	CWW	02/20/25	0431	2753353	1
Fluoride	J	0.0527	0.0330	0.100	mg/L		1					
Sulfate		0.468	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1410	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0525	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0142	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.11	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0123	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0677	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.04	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00145	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.722	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.35	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		46.0	2.38	10.0	mg/L			RR4	02/25/25	1441	2755621	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		26.1	0.725	2.00	mg/L			JW2	02/19/25	1533	2753332	5
Bicarbonate alkalinity (CaCO3)		26.1	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID:	BRA-BRGWA-6S	Project:	GPCC00325
Sample ID:	709660005	Client ID:	GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: May 14, 2025

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2753353												
QC1206012442 709660005 DUP												
Chloride			2.25		2.27	mg/L	1			(0%-20%)	CWW	02/20/25 05:03
Fluoride		J	0.0527	J	0.0526	mg/L	0.19	^		(+/-0.100)		
Sulfate			0.468		0.455	mg/L	2.67	^		(+/-0.400)		
QC1206012439 LCS												
Chloride	5.00				4.70	mg/L			94	(90%-110%)		02/19/25 17:55
Fluoride	2.50				2.37	mg/L			94.8	(90%-110%)		
Sulfate	10.0				9.62	mg/L			96.2	(90%-110%)		
QC1206012438 MB												
Chloride				U	ND	mg/L						02/19/25 17:23
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1206012443 709660005 PS												
Chloride	5.00		2.25		7.03	mg/L			95.6	(90%-110%)		02/20/25 05:35
Fluoride	2.50	J	0.0527		2.46	mg/L			96.5	(90%-110%)		
Sulfate	10.0		0.468		9.89	mg/L			94.2	(90%-110%)		

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753351										
QC1206012427 LCS										
Antimony	0.0500			0.0481	mg/L		96.2	(80%-120%)	PRB	03/04/25 04:33
Arsenic	0.0500			0.0447	mg/L		89.4	(80%-120%)		
Barium	0.0500			0.0484	mg/L		96.7	(80%-120%)		
Beryllium	0.0500			0.0558	mg/L		112	(80%-120%)		
Boron	0.100			0.105	mg/L		105	(80%-120%)		
Cadmium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Calcium	2.00			2.02	mg/L		101	(80%-120%)		
Chromium	0.0500			0.0478	mg/L		95.5	(80%-120%)		
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)		
Iron	2.00			1.93	mg/L		96.4	(80%-120%)		
Lead	0.0500			0.0499	mg/L		99.9	(80%-120%)		
Lithium	0.0500			0.0512	mg/L		102	(80%-120%)		
Magnesium	2.00			2.00	mg/L		100	(80%-120%)		
Manganese	0.0500			0.0476	mg/L		95.1	(80%-120%)		

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753351										
Molybdenum	0.0500			0.0502	mg/L		100	(80%-120%)	PRB	03/04/25 04:33
Potassium	2.00			2.01	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0456	mg/L		91.1	(80%-120%)		
Sodium	2.00			1.92	mg/L		95.8	(80%-120%)		
Thallium	0.0500			0.0484	mg/L		96.8	(80%-120%)		
QC1206012426 MB										
Antimony			U	ND	mg/L					03/04/25 04:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Iron				U	ND	mg/L				PRB	03/04/25 04:30
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1206012428 709658001 MS											
Antimony	0.0500	U	ND		0.0493	mg/L		98.4	(75%-125%)		03/04/25 04:39
Arsenic	0.0500	U	ND		0.0496	mg/L		96.4	(75%-125%)		
Barium	0.0500		0.0266		0.0759	mg/L		98.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0533	mg/L		106	(75%-125%)		

QC Summary

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Boron	0.100		0.682		0.764	mg/L		N/A	(75%-125%)	PRB	03/04/25 11:15
Cadmium	0.0500	U	ND		0.0490	mg/L		97.8	(75%-125%)		03/04/25 04:39
Calcium	2.00		322		321	mg/L		N/A	(75%-125%)		03/04/25 11:15
Chromium	0.0500	U	ND		0.0473	mg/L		94.1	(75%-125%)		03/04/25 04:39
Cobalt	0.0500	U	ND		0.0468	mg/L		93.3	(75%-125%)		
Iron	2.00	J	0.0454		1.93	mg/L		94.4	(75%-125%)		
Lead	0.0500	U	ND		0.0476	mg/L		95.1	(75%-125%)		
Lithium	0.0500		0.0456		0.0973	mg/L		104	(75%-125%)		
Magnesium	2.00		121		120	mg/L		N/A	(75%-125%)		03/04/25 11:15
Manganese	0.0500		0.00667		0.0529	mg/L		92.5	(75%-125%)		03/04/25 04:39
Molybdenum	0.0500	J	0.000295		0.0549	mg/L		109	(75%-125%)		
Potassium	2.00		11.4		13.5	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0524	mg/L		103	(75%-125%)		
Sodium	2.00		40.8		43.4	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Thallium	0.0500	U	ND		0.0468	mg/L		93.5	(75%-125%)	PRB	03/04/25 04:39
QC1206012429 709658001 MSD											
Antimony	0.0500	U	ND		0.0490	mg/L	0.48	97.9	(0%-20%)		03/04/25 04:43
Arsenic	0.0500	U	ND		0.0493	mg/L	0.566	95.9	(0%-20%)		
Barium	0.0500		0.0266		0.0755	mg/L	0.599	97.7	(0%-20%)		
Beryllium	0.0500	U	ND		0.0528	mg/L	0.99	105	(0%-20%)		
Boron	0.100		0.682		0.845	mg/L	10	N/A	(0%-20%)		03/04/25 11:19
Cadmium	0.0500	U	ND		0.0482	mg/L	1.67	96.2	(0%-20%)		03/04/25 04:43
Calcium	2.00		322		361	mg/L	11.7	N/A	(0%-20%)		03/04/25 11:19
Chromium	0.0500	U	ND		0.0474	mg/L	0.188	94.2	(0%-20%)		03/04/25 04:43
Cobalt	0.0500	U	ND		0.0465	mg/L	0.579	92.7	(0%-20%)		
Iron	2.00	J	0.0454		1.90	mg/L	1.74	92.7	(0%-20%)		
Lead	0.0500	U	ND		0.0471	mg/L	0.993	94.2	(0%-20%)		
Lithium	0.0500		0.0456		0.0939	mg/L	3.6	96.7	(0%-20%)		
Magnesium	2.00		121		133	mg/L	10.2	N/A	(0%-20%)		03/04/25 11:19

QC Summary

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Manganese	0.0500		0.00667		0.0529	mg/L	0.085	92.6	(0%-20%)	PRB	03/04/25 04:43
Molybdenum	0.0500	J	0.000295		0.0542	mg/L	1.31	108	(0%-20%)		
Potassium	2.00		11.4		13.3	mg/L	1.6	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0527	mg/L	0.515	104	(0%-20%)		
Sodium	2.00		40.8		41.8	mg/L	3.88	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0469	mg/L	0.235	93.7	(0%-20%)		
QC1206012430 709658001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25 04:49
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.6		5.55	ug/L	4.29		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			68.2		21.8	ug/L	60.2		(0%-20%)		03/04/25 11:22
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25 04:49
Calcium			32200		6430	ug/L	.302		(0%-20%)		03/04/25 11:22
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25 04:49

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753351										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	03/04/25 04:49
Iron	J	45.4	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		45.6	J	8.74	ug/L	4.06		(0%-20%)		
Magnesium		12100		2480	ug/L	2.72		(0%-20%)		03/04/25 11:22
Manganese		6.67	J	1.35	ug/L	1.05		(0%-20%)		03/04/25 04:49
Molybdenum	J	0.295	U	ND	ug/L	N/A		(0%-20%)		
Potassium		11400		2370	ug/L	4.21		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		40800		8100	ug/L	.712		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2754163										
QC1206013890 LCS										
Mercury	0.00200			0.00202	mg/L		101	(80%-120%)	JP2	02/24/25 13:34
QC1206013889 MB										
Mercury			U	ND	mg/L					02/24/25 13:32

QC Summary

Workorder: 709660

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2754163										
QC1206013891 709607001 MS										
Mercury	0.00200 U	ND		0.00209	mg/L		104	(75%-125%)	JP2	02/24/25 13:37
QC1206013892 709607001 MSD										
Mercury	0.00200 U	ND		0.00202	mg/L	3.6	100	(0%-20%)		02/24/25 13:42
QC1206013893 709607001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/24/25 13:44
Solids Analysis										
Batch 2755063										
QC1206015752 709657007 DUP										
Total Dissolved Solids	J	8.00	J	5.00	mg/L	46.2 ^		(+/-10.0)	RR4	02/24/25 13:32
QC1206015750 LCS										
Total Dissolved Solids	300			285	mg/L		95	(95%-105%)		02/24/25 13:32
QC1206015749 MB										
Total Dissolved Solids			U	ND	mg/L					02/24/25 13:32
Batch 2755621										
QC1206016936 709735008 DUP										
Total Dissolved Solids		2060		2140	mg/L	3.62		(0%-5%)	RR4	02/25/25 14:41
QC1206016934 LCS										
Total Dissolved Solids	300			285	mg/L		95	(95%-105%)		02/25/25 14:41
QC1206016933 MB										
Total Dissolved Solids			U	ND	mg/L					02/25/25 14:41

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2753332											
QC1206012395 LCS											
Alkalinity, Total as CaCO3	50.0			53.2	mg/L		106	(90%-110%)	JW2	02/19/25	15:20
QC1206012396 LCS											
Alkalinity, Total as CaCO3	15.0			15.9	mg/L		106	(90%-110%)		02/19/25	15:22
QC1206012397 LCSD											
Alkalinity, Total as CaCO3	50.0			53.1	mg/L	0.188	106	(0%-20%)		02/19/25	15:21
QC1206012398 LCSD											
Alkalinity, Total as CaCO3	15.0			15.7	mg/L	1.27	105	(0%-20%)		02/19/25	15:23

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

x Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
***** Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2753351

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2753350

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206012426	Method Blank (MB)**ICP-MS**
1206012427	Laboratory Control Sample (LCS)
1206012430	709658001(BRA-BRGWC-47L) Serial Dilution (SD)
1206012428	709658001(BRA-BRGWC-47S) Matrix Spike (MS)
1206012429	709658001(BRA-BRGWC-47SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2754163

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2754162

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206013889	Method Blank (MB)**CVAA**
1206013890	Laboratory Control Sample (LCS)
1206013893	709607001(NonSDGL) Serial Dilution (SD)
1206013891	709607001(NonSDGS) Matrix Spike (MS)
1206013892	709607001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2753353

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206012438	Method Blank (MB)
1206012439	Laboratory Control Sample (LCS)
1206012442	709660005(BRA-BRGWA-6S) Sample Duplicate (DUP)
1206012443	709660005(BRA-BRGWA-6S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Manual Integrations
Samples 1206012442 (BRA-BRGWA-6SDUP), 1206012443 (BRA-BRGWA-6SPS), 709660001 (BRA-BRGWA-5I), 709660002 (BRA-BRGWA-5S), 709660003 (BRA-BRGWA-2I), 709660004

(BRA-BRGWA-2S) and 709660005 (BRA-BRGWA-6S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2755063

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
1206015749	Method Blank (MB)
1206015750	Laboratory Control Sample (LCS)
1206015752	709657007(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2755621

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206016933	Method Blank (MB)
1206016934	Laboratory Control Sample (LCS)
1206016936	709735008(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the sample for approximate concentration prior to analysis. 1206016936 (Non SDG 709735008DUP).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2753332

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206012395	Laboratory Control Sample (LCS)
1206012396	Laboratory Control Sample (LCS)
1206012397	Laboratory Control Sample Duplicate (LCSD)
1206012398	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

709660
709661

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Berry, D. Johnson, T. Goble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
BRA- BR GWA-5I	02/18/25	1002	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BR GWA-9S	02/18/25	0959	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWA-2I	02/18/25	1030	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWA-2S	02/18/25	1125	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWA-6S	02/18/25	1305	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2025S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		2/19/25	0810		2/19/25	810
2		2/19/25	1310		2/19/25	1310
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

709660 709658
709661 709659

Client: GPCC	SDG/AR/COC/Work Order:	GEL PM:
Received By: QG	Date Received at GEL: 2/19/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	0°c				
2	0°c				
3	0°c				
4	0°c				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HB Date FEB 20 2025

☐ Continuation Form Required when selected

List of current GEL Certifications as of 14 May 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

May 14, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Branch Ash Ponds BCD-Total Metals* and BCD - Total Metals*
Work Orders: 709658 and 709770

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 19, 2025 and February 20, 2025. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 709658 in the left-hand footer of the data report. This package has been updated to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
709658001	BRA-BRGWC-47	Ground Water	02/18/25 16:54	02/19/25 13:10
709658002	BRA-PZ-74I	Ground Water	02/18/25 16:38	02/19/25 13:10
709658003	BRA-PZ-75I	Ground Water	02/18/25 14:42	02/19/25 13:10
709658004	BRA-APBCD-FB-01	Water	02/18/25 17:20	02/19/25 13:10
709658005	BRA-APBCD-EB-04	Water	02/18/25 15:30	02/19/25 13:10
709770001	BRA-APBCD-FD-01	Ground Water	02/19/25 12:00	02/20/25 09:10
709770002	BRA-BRGWA-23S	Ground Water	02/18/25 12:11	02/20/25 09:10
709770003	BRA-BRGWC-25I	Ground Water	02/19/25 12:02	02/20/25 09:10
709770004	BRA-BRGWC-29I	Ground Water	02/19/25 10:28	02/20/25 09:10
709770005	BRA-BRGWC-52I	Ground Water	02/19/25 10:14	02/20/25 09:10
709770006	BRA-PZ-63I	Ground Water	02/19/25 11:55	02/20/25 09:10
709770007	BRA-PZ-68D	Ground Water	02/19/25 09:30	02/20/25 09:10
709770008	BRA-APBCD-FB-02	Water	02/19/25 13:00	02/20/25 09:10
709770009	BRA-BRGWC-27I	Ground Water	02/19/25 14:14	02/20/25 09:10
709770010	BRA-BRGWC-30I	Ground Water	02/19/25 15:25	02/20/25 09:10

709770011	BRA-BRGWC-32S	Ground Water	02/19/25 15:08	02/20/25 09:10
709770012	BRA-BRGWC-44	Ground Water	02/19/25 16:53	02/20/25 09:10
709770013	BRA-BRGWC-45	Ground Water	02/19/25 16:09	02/20/25 09:10
709770014	BRA-APBCD-EB-05	Water	02/19/25 16:45	02/20/25 09:10
709770015	BRA-APBCD-FD-02	Ground Water	02/19/25 12:00	02/20/25 09:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	20-FEB-2025
SW846 3005A	21-FEB-2025
SW846 7470A Prep	24-FEB-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	19-FEB-2025
EPA 300.0	20-FEB-2025
EPA 300.0	21-FEB-2025
SM 2320B	19-FEB-2025
SM 2320B	20-FEB-2025
SM 2540C	24-FEB-2025
SM 2540C	25-FEB-2025
SM 2540C	26-FEB-2025
SW846 3005A/6020B	04-MAR-2025
SW846 7470A	25-FEB-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC002 Georgia Power Company

Client SDG: 709658 GEL Work Order: 709658

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-47	Project:	GPCC00325
Sample ID:	709658001	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	18-FEB-25 16:54		
Receive Date:	19-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.54	0.0670	0.200	mg/L		1	CWW	02/19/25	2241	2753353	1
Fluoride		0.189	0.0330	0.100	mg/L		1					
Sulfate		1340	13.3	40.0	mg/L		100	CWW	02/20/25	1338	2753353	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1336	2754514	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0436	2753351	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0266	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0454	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0456	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.00667	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000295	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		40.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.682	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1112	2753351	5
Calcium		322	0.800	2.00	mg/L	1.00	10					
Magnesium		121	0.100	0.300	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1960	4.76	20.0	mg/L			RR4	02/24/25	1332	2755063	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.1	0.725	2.00	mg/L			JW2	02/19/25	1523	2753332	7
Bicarbonate alkalinity (CaCO3)		27.1	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-BRGWC-47 Project: GPCC00325
Sample ID: 709658001 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754509
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-PZ-74I
Sample ID: 709658002
Matrix: WG
Collect Date: 18-FEB-25 16:38
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0877	0.0330	0.100	mg/L		1	CWW	02/19/25	2313	2753353	1
Chloride		13.7	0.134	0.400	mg/L		2	CWW	02/20/25	1556	2753353	2
Sulfate		268	2.66	8.00	mg/L		20	CWW	02/20/25	1628	2753353	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.000121	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1338	2754514	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0459	2753351	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0222	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.104	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00692	0.00300	0.0100	mg/L	1.00	1					
Magnesium		34.3	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00477	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.18	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0622	0.00150	0.00500	mg/L	1.00	1					
Sodium		24.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.25	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1125	2753351	6
Calcium		61.8	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		471	2.38	10.0	mg/L			RR4	02/24/25	1332	2755063	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		46.5	0.725	2.00	mg/L			JW2	02/19/25	1525	2753332	8
Bicarbonate alkalinity (CaCO3)		46.5	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-PZ-74I
Sample ID: 709658002
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754509

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-PZ-75I	Project:	GPCC00325
Sample ID:	709658003	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	18-FEB-25 14:42		
Receive Date:	19-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.06	0.0670	0.200	mg/L		1	CWW	02/19/25	2345	2753353	1
Fluoride	J	0.0816	0.0330	0.100	mg/L		1					
Sulfate		273	2.66	8.00	mg/L		20	CWW	02/20/25	1510	2753353	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1343	2754514	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0502	2753351	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0299	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		48.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0717	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00355	0.00300	0.0100	mg/L	1.00	1					
Magnesium		34.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00622	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.75	0.0800	0.300	mg/L	1.00	1					
Selenium		0.122	0.00150	0.00500	mg/L	1.00	1					
Sodium		24.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.31	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1128	2753351	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		476	2.38	10.0	mg/L			RR4	02/24/25	1332	2755063	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		33.3	0.725	2.00	mg/L			JW2	02/19/25	1526	2753332	7
Bicarbonate alkalinity (CaCO3)		33.3	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-PZ-75I
Sample ID: 709658003
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754509

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 709658004
Matrix: WQ
Collect Date: 18-FEB-25 17:20
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	02/20/25	0120	2753353	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1344	2754514	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0505	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.0122	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0216	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/24/25	1332	2755063	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/19/25	1527	2753332	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00325
Sample ID: 709658004 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754509
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-APBCD-EB-04	Project:	GPCC00325
Sample ID:	709658005	Client ID:	GPCC002
Matrix:	WQ		
Collect Date:	18-FEB-25 15:30		
Receive Date:	19-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	02/20/25	0152	2753353	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1346	2754514	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0509	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/24/25	1332	2755063	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/19/25	1528	2753332	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00325
Sample ID: 709658005 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754509
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 709770001
Matrix: WG
Collect Date: 19-FEB-25 12:00
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.32	0.0670	0.200	mg/L		1	CWW	02/20/25	1938	2753903	1
Fluoride		0.163	0.0330	0.100	mg/L		1					
Sulfate		348	5.32	16.0	mg/L		40	CWW	02/21/25	0854	2753903	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1407	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1413	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00103	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00720	0.000300	0.00100	mg/L	1.00	1					
Iron		20.5	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.63	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00447	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.09	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1637	2753772	5
Calcium		98.1	0.800	2.00	mg/L	1.00	10					
Manganese		1.52	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		546	2.38	10.0	mg/L			RR4	02/25/25	1241	2755622	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/20/25	1235	2753709	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00325
Sample ID: 709770001 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWA-23S	Project:	GPCC00325
Sample ID:	709770002	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	18-FEB-25 12:11		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.16	0.0670	0.200	mg/L		1	CWW	02/20/25	2010	2753903	1
Fluoride	J	0.0974	0.0330	0.100	mg/L		1					
Sulfate		13.6	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1232	2754499	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1417	2753772	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0528	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0393	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		7.17	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0680	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00934	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.55	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00120	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000273	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.11	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00240	0.00150	0.00500	mg/L	1.00	1					
Sodium		8.70	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		104	2.38	10.0	mg/L			RR4	02/24/25	1332	2755063	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		33.2	0.725	2.00	mg/L			JW2	02/20/25	1236	2753709	5
Bicarbonate alkalinity (CaCO3)		33.2	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-BRGWA-23S
Project: GPCC00325
Sample ID: 709770002
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00325
Sample ID:	709770003	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 12:02		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.281	0.0330	0.100	mg/L		1	CWW	02/20/25	2042	2753903	1
Chloride		12.5	1.34	4.00	mg/L		20	CWW	02/21/25	0926	2753903	2
Sulfate		204	2.66	8.00	mg/L		20					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1234	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1537	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0254	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00193	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0776	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		24.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000820	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.65	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00217	0.00150	0.00500	mg/L	1.00	1					
Sodium		21.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.63	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1640	2753772	5
Calcium		73.0	0.800	2.00	mg/L	1.00	10					
Manganese		1.68	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		419	2.38	10.0	mg/L			RR4	02/25/25	1241	2755622	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		105	0.725	2.00	mg/L			JW2	02/20/25	1237	2753709	7
Bicarbonate alkalinity (CaCO3)		105	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-BRGWC-25I
Project: GPCC00325
Sample ID: 709770003
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-29I	Project:	GPCC00325
Sample ID:	709770004	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 10:28		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.25	0.0670	0.200	mg/L		1	CWW	02/20/25	2114	2753903	1
Fluoride		0.129	0.0330	0.100	mg/L		1					
Sulfate		346	5.32	16.0	mg/L		40	CWW	02/21/25	0958	2753903	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.000384	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1236	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1540	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0168	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00100	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00698	0.000300	0.00100	mg/L	1.00	1					
Iron		20.5	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.63	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00450	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.56	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1643	2753772	5
Calcium		119	0.800	2.00	mg/L	1.00	10					
Manganese		1.87	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		519	2.38	10.0	mg/L			RR4	02/25/25	1241	2755622	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/20/25	1239	2753709	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-BRGWC-29I
Sample ID: 709770004
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-BRGWC-52I
Sample ID: 709770005
Matrix: WG
Collect Date: 19-FEB-25 10:14
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.43	0.0670	0.200	mg/L		1	CWW	02/20/25	2146	2753903	1
Fluoride		0.152	0.0330	0.100	mg/L		1					
Sulfate		149	1.33	4.00	mg/L		10	CWW	02/21/25	1030	2753903	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1237	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1543	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0390	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		40.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.44	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0114	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.534	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000826	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.05	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00198	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.67	0.104	0.300	mg/L	1.00	20	PRB	03/04/25	1716	2753772	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		298	2.38	10.0	mg/L			RR4	02/25/25	1241	2755622	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		55.8	0.725	2.00	mg/L			JW2	02/20/25	1240	2753709	7
Bicarbonate alkalinity (CaCO3)		55.8	0.725	2.00	mg/L							

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-BRGWC-52I
Sample ID: 709770005
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-PZ-63I	Project:	GPCC00325
Sample ID:	709770006	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 11:55		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.57	0.0670	0.200	mg/L		1	CWW	02/20/25	2218	2753903	1
Fluoride		0.194	0.0330	0.100	mg/L		1					
Sulfate		403	6.65	20.0	mg/L		50	CWW	02/21/25	1403	2753903	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1239	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1546	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0224	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0402	0.000300	0.00100	mg/L	1.00	1					
Iron		0.747	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00669	0.00300	0.0100	mg/L	1.00	1					
Magnesium		49.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000765	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.74	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00262	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.712	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1650	2753772	5
Calcium		75.5	0.800	2.00	mg/L	1.00	10					
Manganese		9.01	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		664	2.38	10.0	mg/L			RR4	02/25/25	1241	2755622	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		26.4	0.725	2.00	mg/L			JW2	02/20/25	1241	2753709	7
Bicarbonate alkalinity (CaCO3)		26.4	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-PZ-63I
Sample ID: 709770006
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-PZ-68D	Project:	GPCC00325
Sample ID:	709770007	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 09:30		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.135	0.0330	0.100	mg/L		1	CWW	02/20/25	2249	2753903	1
Chloride		16.8	0.134	0.400	mg/L		2	CWW	02/21/25	1435	2753903	2
Sulfate		308	3.33	10.0	mg/L		25	CWW	02/21/25	1507	2753903	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1244	2754499	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1549	2753772	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0959	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000454	0.000300	0.00100	mg/L	1.00	1					
Iron		0.372	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		21.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.219	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00612	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.6	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00205	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.389	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1653	2753772	6
Calcium		93.6	0.800	2.00	mg/L	1.00	10					
Sodium		56.9	0.800	2.50	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		568	4.76	20.0	mg/L			RR4	02/25/25	1241	2755622	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		121	0.725	2.00	mg/L			JW2	02/20/25	1242	2753709	8
Bicarbonate alkalinity (CaCO3)		121	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-PZ-68D
Sample ID: 709770007
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-APBCD-FB-02	Project:	GPCC00325
Sample ID:	709770008	Client ID:	GPCC002
Matrix:	WQ		
Collect Date:	19-FEB-25 13:00		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	02/21/25	0025	2753903	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1245	2754499	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1553	2753772	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.0133	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00189	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/25/25	1241	2755622	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/20/25	1243	2753709	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00325
Sample ID: 709770008 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

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Company : Georgia Power Company, Southern Company
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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-27I	Project:	GPCC00325
Sample ID:	709770009	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 14:14		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.08	0.0670	0.200	mg/L		1	CWW	02/21/25	0057	2753903	1
Fluoride	J	0.0997	0.0330	0.100	mg/L		1					
Sulfate		134	1.33	4.00	mg/L		10	CWW	02/21/25	1539	2753903	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1247	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1602	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0193	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000201	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		46.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00157	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.50	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0864	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.55	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00309	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.02	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1656	2753772	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		222	2.38	10.0	mg/L			RR4	02/25/25	1241	2755622	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		40.8	0.725	2.00	mg/L			JW2	02/20/25	1244	2753709	7
Bicarbonate alkalinity (CaCO3)		40.8	0.725	2.00	mg/L							

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-BRGWC-27I
Sample ID: 709770009
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-30I	Project:	GPCC00325
Sample ID:	709770010	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 15:25		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.90	0.0670	0.200	mg/L		1	CWW	02/21/25	0129	2753903	1
Fluoride		0.194	0.0330	0.100	mg/L		1					
Sulfate		1310	13.3	40.0	mg/L		100	CWW	02/21/25	1610	2753903	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1249	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1606	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0328	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00149	0.000300	0.00100	mg/L	1.00	1					
Iron		2.24	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0301	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00128	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.25	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00316	0.00150	0.00500	mg/L	1.00	1					
Sodium		28.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.92	0.104	0.300	mg/L	1.00	20	PRB	03/04/25	1659	2753772	5
Calcium		442	1.60	4.00	mg/L	1.00	20					
Magnesium		63.2	0.200	0.600	mg/L	1.00	20					
Manganese		1.75	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2120	4.76	20.0	mg/L			RR4	02/25/25	1241	2755622	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		148	0.725	2.00	mg/L			JW2	02/20/25	1245	2753709	7
Bicarbonate alkalinity (CaCO3)		148	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-BRGWC-30I
Project: GPCC00325
Sample ID: 709770010
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-32S	Project:	GPCC00325
Sample ID:	709770011	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 15:08		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.90	0.0670	0.200	mg/L		1	CWW	02/21/25	0200	2753903	1
Fluoride	J	0.0774	0.0330	0.100	mg/L		1					
Sulfate		196	2.66	8.00	mg/L		20	CWW	02/21/25	1642	2753903	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1250	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1609	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0192	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		37.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.393	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00514	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.3	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00267	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.93	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0782	0.00150	0.00500	mg/L	1.00	1					
Sodium		24.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.05	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1703	2753772	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		351	2.38	10.0	mg/L			RR4	02/25/25	1241	2755622	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.2	0.725	2.00	mg/L			JW2	02/20/25	1247	2753709	7
Bicarbonate alkalinity (CaCO3)		32.2	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-32S	Project:	GPCC00325
Sample ID:	709770011	Client ID:	GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-44	Project:	GPCC00325
Sample ID:	709770012	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 16:53		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.18	0.0670	0.200	mg/L		1	CWW	02/21/25	0232	2753903	1
Fluoride		0.127	0.0330	0.100	mg/L		1					
Sulfate		41.1	0.665	2.00	mg/L		5	CWW	02/21/25	1714	2753903	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1252	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1612	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0500	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		24.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00581	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.94	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.426	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.82	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00202	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.13	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1706	2753772	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		131	2.38	10.0	mg/L			RR4	02/26/25	1132	2756294	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.3	0.725	2.00	mg/L			JW2	02/20/25	1248	2753709	7
Bicarbonate alkalinity (CaCO3)		77.3	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-44	Project:	GPCC00325
Sample ID:	709770012	Client ID:	GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00325
Sample ID:	709770013	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 16:09		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.142	0.0330	0.100	mg/L		1	CWW	02/21/25	0408	2753903	1
Chloride		21.2	0.335	1.00	mg/L		5	CWW	02/21/25	1850	2753903	2
Sulfate		169	2.66	8.00	mg/L		20	CWW	02/21/25	2025	2753903	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1254	2754499	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1615	2753772	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0629	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0537	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		44.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000823	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.3	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0789	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000261	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.43	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00237	0.00150	0.00500	mg/L	1.00	1					
Sodium		15.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		348	2.38	10.0	mg/L			RR4	02/26/25	1132	2756294	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		42.9	0.725	2.00	mg/L			JW2	02/20/25	1250	2753709	7
Bicarbonate alkalinity (CaCO3)		42.9	0.725	2.00	mg/L							

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-BRGWC-45 Project: GPCC00325
Sample ID: 709770013 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-APBCD-EB-05	Project:	GPCC00325
Sample ID:	709770014	Client ID:	GPCC002
Matrix:	WQ		
Collect Date:	19-FEB-25 16:45		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	02/21/25	0440	2753903	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1255	2754499	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1619	2753772	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.0126	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	J	0.0903	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00249	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/26/25	1132	2756294	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/20/25	1251	2753709	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00325
Sample ID: 709770014 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID:	BRA-APBCD-FD-02	Project:	GPCC00325
Sample ID:	709770015	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	19-FEB-25 12:00		
Receive Date:	20-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.19	0.0670	0.200	mg/L		1	CWW	02/21/25	0511	2753903	1
Fluoride		0.117	0.0330	0.100	mg/L		1					
Sulfate		41.7	0.665	2.00	mg/L		5	CWW	02/21/25	2057	2753903	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/25/25	1257	2754499	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	1622	2753772	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0496	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		24.2	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00574	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.433	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.80	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00191	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.20	0.0520	0.150	mg/L	1.00	10	PRB	03/04/25	1627	2753772	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		141	2.38	10.0	mg/L			RR4	02/26/25	1132	2756294	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.4	0.725	2.00	mg/L			JW2	02/20/25	1252	2753709	7
Bicarbonate alkalinity (CaCO3)		77.4	0.725	2.00	mg/L							

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsBCD-Total Metals* and BCD - Total Metals*

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00325
Sample ID: 709770015 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/21/25	0835	2753769
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/24/25	1120	2754489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: May 14, 2025

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **709658**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2753353												
QC1206012442 709660005 DUP												
Chloride			2.25		2.27	mg/L	1			(0%-20%)	CWW	02/20/25 05:03
Fluoride		J	0.0527	J	0.0526	mg/L	0.19	^		(+/-0.100)		
Sulfate			0.468		0.455	mg/L	2.67	^		(+/-0.400)		
QC1206012439 LCS												
Chloride	5.00				4.70	mg/L			94	(90%-110%)		02/19/25 17:55
Fluoride	2.50				2.37	mg/L			94.8	(90%-110%)		
Sulfate	10.0				9.62	mg/L			96.2	(90%-110%)		
QC1206012438 MB												
Chloride				U	ND	mg/L						02/19/25 17:23
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1206012443 709660005 PS												
Chloride	5.00		2.25		7.03	mg/L			95.6	(90%-110%)		02/20/25 05:35
Fluoride	2.50	J	0.0527		2.46	mg/L			96.5	(90%-110%)		
Sulfate	10.0		0.468		9.89	mg/L			94.2	(90%-110%)		

QC Summary

Workorder: **709658**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753351										
QC1206012427 LCS										
Antimony	0.0500			0.0481	mg/L		96.2	(80%-120%)	PRB	03/04/25 04:33
Arsenic	0.0500			0.0447	mg/L		89.4	(80%-120%)		
Barium	0.0500			0.0484	mg/L		96.7	(80%-120%)		
Beryllium	0.0500			0.0558	mg/L		112	(80%-120%)		
Boron	0.100			0.105	mg/L		105	(80%-120%)		
Cadmium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Calcium	2.00			2.02	mg/L		101	(80%-120%)		
Chromium	0.0500			0.0478	mg/L		95.5	(80%-120%)		
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)		
Iron	2.00			1.93	mg/L		96.4	(80%-120%)		
Lead	0.0500			0.0499	mg/L		99.9	(80%-120%)		
Lithium	0.0500			0.0512	mg/L		102	(80%-120%)		
Magnesium	2.00			2.00	mg/L		100	(80%-120%)		
Manganese	0.0500			0.0476	mg/L		95.1	(80%-120%)		

QC Summary

Workorder: **709658**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753351										
Molybdenum	0.0500			0.0502	mg/L		100	(80%-120%)	PRB	03/04/25 04:33
Potassium	2.00			2.01	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0456	mg/L		91.1	(80%-120%)		
Sodium	2.00			1.92	mg/L		95.8	(80%-120%)		
Thallium	0.0500			0.0484	mg/L		96.8	(80%-120%)		
QC1206012426 MB										
Antimony			U	ND	mg/L					03/04/25 04:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **709658**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Iron				U	ND	mg/L				PRB	03/04/25 04:30
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1206012428 709658001 MS											
Antimony	0.0500	U	ND		0.0493	mg/L		98.4	(75%-125%)		03/04/25 04:39
Arsenic	0.0500	U	ND		0.0496	mg/L		96.4	(75%-125%)		
Barium	0.0500		0.0266		0.0759	mg/L		98.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0533	mg/L		106	(75%-125%)		

QC Summary

Workorder: **709658**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Boron	0.100		0.682		0.764	mg/L		N/A	(75%-125%)	PRB	03/04/25 11:15
Cadmium	0.0500	U	ND		0.0490	mg/L		97.8	(75%-125%)		03/04/25 04:39
Calcium	2.00		322		321	mg/L		N/A	(75%-125%)		03/04/25 11:15
Chromium	0.0500	U	ND		0.0473	mg/L		94.1	(75%-125%)		03/04/25 04:39
Cobalt	0.0500	U	ND		0.0468	mg/L		93.3	(75%-125%)		
Iron	2.00	J	0.0454		1.93	mg/L		94.4	(75%-125%)		
Lead	0.0500	U	ND		0.0476	mg/L		95.1	(75%-125%)		
Lithium	0.0500		0.0456		0.0973	mg/L		104	(75%-125%)		
Magnesium	2.00		121		120	mg/L		N/A	(75%-125%)		03/04/25 11:15
Manganese	0.0500		0.00667		0.0529	mg/L		92.5	(75%-125%)		03/04/25 04:39
Molybdenum	0.0500	J	0.000295		0.0549	mg/L		109	(75%-125%)		
Potassium	2.00		11.4		13.5	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0524	mg/L		103	(75%-125%)		
Sodium	2.00		40.8		43.4	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **709658**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Thallium	0.0500	U	ND		0.0468	mg/L		93.5	(75%-125%)	PRB	03/04/25 04:39
QC1206012429 709658001 MSD											
Antimony	0.0500	U	ND		0.0490	mg/L	0.48	97.9	(0%-20%)		03/04/25 04:43
Arsenic	0.0500	U	ND		0.0493	mg/L	0.566	95.9	(0%-20%)		
Barium	0.0500		0.0266		0.0755	mg/L	0.599	97.7	(0%-20%)		
Beryllium	0.0500	U	ND		0.0528	mg/L	0.99	105	(0%-20%)		
Boron	0.100		0.682		0.845	mg/L	10	N/A	(0%-20%)		03/04/25 11:19
Cadmium	0.0500	U	ND		0.0482	mg/L	1.67	96.2	(0%-20%)		03/04/25 04:43
Calcium	2.00		322		361	mg/L	11.7	N/A	(0%-20%)		03/04/25 11:19
Chromium	0.0500	U	ND		0.0474	mg/L	0.188	94.2	(0%-20%)		03/04/25 04:43
Cobalt	0.0500	U	ND		0.0465	mg/L	0.579	92.7	(0%-20%)		
Iron	2.00	J	0.0454		1.90	mg/L	1.74	92.7	(0%-20%)		
Lead	0.0500	U	ND		0.0471	mg/L	0.993	94.2	(0%-20%)		
Lithium	0.0500		0.0456		0.0939	mg/L	3.6	96.7	(0%-20%)		
Magnesium	2.00		121		133	mg/L	10.2	N/A	(0%-20%)		03/04/25 11:19

QC Summary

Workorder: **709658**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Manganese	0.0500		0.00667		0.0529	mg/L	0.085	92.6	(0%-20%)	PRB	03/04/25 04:43
Molybdenum	0.0500	J	0.000295		0.0542	mg/L	1.31	108	(0%-20%)		
Potassium	2.00		11.4		13.3	mg/L	1.6	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0527	mg/L	0.515	104	(0%-20%)		
Sodium	2.00		40.8		41.8	mg/L	3.88	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0469	mg/L	0.235	93.7	(0%-20%)		
QC1206012430 709658001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25 04:49
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.6		5.55	ug/L	4.29		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			68.2		21.8	ug/L	60.2		(0%-20%)		03/04/25 11:22
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25 04:49
Calcium			32200		6430	ug/L	.302		(0%-20%)		03/04/25 11:22
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25 04:49

QC Summary

Workorder: **709658**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753351										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	03/04/25 04:49
Iron	J	45.4	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		45.6	J	8.74	ug/L	4.06		(0%-20%)		
Magnesium		12100		2480	ug/L	2.72		(0%-20%)		03/04/25 11:22
Manganese		6.67	J	1.35	ug/L	1.05		(0%-20%)		03/04/25 04:49
Molybdenum	J	0.295	U	ND	ug/L	N/A		(0%-20%)		
Potassium		11400		2370	ug/L	4.21		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		40800		8100	ug/L	.712		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2754514										
QC1206014644 LCS										
Mercury	0.00200			0.00195	mg/L		97.4	(80%-120%)	JP2	02/25/25 13:05
QC1206014643 MB										
Mercury			U	ND	mg/L					02/25/25 13:03

QC Summary

Workorder: 709658

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2754514											
QC1206014645 708763001 MS											
Mercury	0.00200 U	ND		0.00188	mg/L			94.2	(75%-125%)	JP2	02/25/25 13:10
QC1206014646 708763001 MSD											
Mercury	0.00200 U	ND		0.00188	mg/L	0.266		94	(0%-20%)		02/25/25 13:11
QC1206014647 708763001 SDILT											
Mercury	U	ND	U	ND	ug/L	N/A			(0%-10%)		02/25/25 13:13
Solids Analysis											
Batch 2755063											
QC1206015751 709596044 DUP											
Total Dissolved Solids		330		303	mg/L	8.53	*		(0%-5%)	RR4	02/24/25 13:32
QC1206015750 LCS											
Total Dissolved Solids	300			285	mg/L			95	(95%-105%)		02/24/25 13:32
QC1206015749 MB											
Total Dissolved Solids			U	ND	mg/L						02/24/25 13:32
Titration and Ion Analysis											
Batch 2753332											
QC1206012395 LCS											
Alkalinity, Total as CaCO3	50.0			53.2	mg/L			106	(90%-110%)	JW2	02/19/25 15:20
QC1206012396 LCS											
Alkalinity, Total as CaCO3	15.0			15.9	mg/L			106	(90%-110%)		02/19/25 15:22
QC1206012397 LCSD											
Alkalinity, Total as CaCO3	50.0			53.1	mg/L	0.188		106	(0%-20%)		02/19/25 15:21
QC1206012398 LCSD											
Alkalinity, Total as CaCO3	15.0			15.7	mg/L	1.27		105	(0%-20%)		02/19/25 15:23

QC Summary

Workorder: **709658**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
***** Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: May 14, 2025

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **709770**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2753903										
QC1206013425 709770012 DUP										
Chloride		6.18		6.17	mg/L	0.155		(0%-20%)	CWW	02/21/25 03:04
Fluoride		0.127		0.116	mg/L	8.97 ^		(+/-0.100)		
Sulfate		41.1		41.0	mg/L	0.247		(0%-20%)		02/21/25 17:46
QC1206013424 LCS										
Chloride	5.00			4.69	mg/L		93.9	(90%-110%)		02/20/25 18:35
Fluoride	2.50			2.37	mg/L		94.7	(90%-110%)		
Sulfate	10.0			9.59	mg/L		95.9	(90%-110%)		
QC1206013423 MB										
Chloride			U	ND	mg/L					02/20/25 18:03
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1206013426 709770012 PS										
Chloride	5.00	6.18		11.4	mg/L		104	(90%-110%)		02/21/25 03:36
Fluoride	2.50	0.127		2.64	mg/L		100	(90%-110%)		
Sulfate	10.0	8.22		18.0	mg/L		97.5	(90%-110%)		02/21/25 18:18

QC Summary

Workorder: **709770**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753772										
QC1206013211 LCS										
Antimony	0.0500			0.0483	mg/L		96.7	(80%-120%)	PRB	03/04/25 14:10
Arsenic	0.0500			0.0486	mg/L		97.1	(80%-120%)		
Barium	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Beryllium	0.0500			0.0564	mg/L		113	(80%-120%)		
Boron	0.100			0.116	mg/L		116	(80%-120%)		
Cadmium	0.0500			0.0488	mg/L		97.7	(80%-120%)		
Calcium	2.00			2.13	mg/L		107	(80%-120%)		
Chromium	0.0500			0.0510	mg/L		102	(80%-120%)		
Cobalt	0.0500			0.0511	mg/L		102	(80%-120%)		
Iron	2.00			2.01	mg/L		101	(80%-120%)		
Lead	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Lithium	0.0500			0.0541	mg/L		108	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		
Manganese	0.0500			0.0505	mg/L		101	(80%-120%)		

QC Summary

Workorder: **709770**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753772										
Molybdenum	0.0500			0.0494	mg/L		98.8	(80%-120%)	PRB	03/04/25 14:10
Potassium	2.00			2.19	mg/L		109	(80%-120%)		
Selenium	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Sodium	2.00			2.03	mg/L		102	(80%-120%)		
Thallium	0.0500			0.0482	mg/L		96.4	(80%-120%)		
QC1206013210 MB										
Antimony			U	ND	mg/L					03/04/25 14:07
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			J	0.00724	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **709770**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753772											
Iron				U	ND	mg/L				PRB	03/04/25 14:07
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				J	0.00168	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1206013212 709770002 MS											
Antimony	0.0500	U	ND		0.0486	mg/L		96.8	(75%-125%)		03/04/25 14:20
Arsenic	0.0500	U	ND		0.0480	mg/L		94.1	(75%-125%)		
Barium	0.0500		0.0528		0.106	mg/L		106	(75%-125%)		
Beryllium	0.0500	U	ND		0.0565	mg/L		113	(75%-125%)		

QC Summary

Workorder: **709770**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753772											
Boron	0.100		0.0393		0.143	mg/L		104	(75%-125%)	PRB	03/04/25 14:20
Cadmium	0.0500	U	ND		0.0488	mg/L		97.4	(75%-125%)		
Calcium	2.00		7.17		9.26	mg/L		104	(75%-125%)		
Chromium	0.0500	U	ND		0.0517	mg/L		100	(75%-125%)		
Cobalt	0.0500	U	ND		0.0493	mg/L		98.4	(75%-125%)		
Iron	2.00	J	0.0680		2.04	mg/L		98.5	(75%-125%)		
Lead	0.0500	U	ND		0.0498	mg/L		99.6	(75%-125%)		
Lithium	0.0500	J	0.00934		0.0636	mg/L		109	(75%-125%)		
Magnesium	2.00		3.55		5.75	mg/L		110	(75%-125%)		
Manganese	0.0500	J	0.00120		0.0503	mg/L		98.1	(75%-125%)		
Molybdenum	0.0500	J	0.000273		0.0498	mg/L		99.1	(75%-125%)		
Potassium	2.00		3.11		5.25	mg/L		107	(75%-125%)		
Selenium	0.0500	J	0.00240		0.0492	mg/L		93.5	(75%-125%)		
Sodium	2.00		8.70		10.8	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **709770**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2753772												
Thallium	0.0500	U	ND		0.0487	mg/L		97.3	(75%-125%)	PRB	03/04/25	14:20
QC1206013213 709770002 MSD												
Antimony	0.0500	U	ND		0.0474	mg/L	2.41	94.5	(0%-20%)		03/04/25	14:23
Arsenic	0.0500	U	ND		0.0473	mg/L	1.37	92.8	(0%-20%)			
Barium	0.0500		0.0528		0.100	mg/L	5.36	95.1	(0%-20%)			
Beryllium	0.0500	U	ND		0.0553	mg/L	2.14	111	(0%-20%)			
Boron	0.100		0.0393		0.140	mg/L	2.39	100	(0%-20%)			
Cadmium	0.0500	U	ND		0.0484	mg/L	0.673	96.8	(0%-20%)			
Calcium	2.00		7.17		8.94	mg/L	3.49	88.3	(0%-20%)			
Chromium	0.0500	U	ND		0.0495	mg/L	4.29	96	(0%-20%)			
Cobalt	0.0500	U	ND		0.0483	mg/L	2	96.5	(0%-20%)			
Iron	2.00	J	0.0680		1.99	mg/L	2.5	96	(0%-20%)			
Lead	0.0500	U	ND		0.0484	mg/L	3.03	96.6	(0%-20%)			
Lithium	0.0500	J	0.00934		0.0625	mg/L	1.78	106	(0%-20%)			
Magnesium	2.00		3.55		5.51	mg/L	4.24	98.1	(0%-20%)			

QC Summary

Workorder: **709770**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2753772												
Manganese	0.0500	J	0.00120		0.0492	mg/L	2.07	96.1	(0%-20%)	PRB	03/04/25	14:23
Molybdenum	0.0500	J	0.000273		0.0490	mg/L	1.62	97.5	(0%-20%)			
Potassium	2.00		3.11		5.01	mg/L	4.73	94.9	(0%-20%)			
Selenium	0.0500	J	0.00240		0.0477	mg/L	3.02	90.6	(0%-20%)			
Sodium	2.00		8.70		10.6	mg/L	1.68	N/A	(0%-20%)			
Thallium	0.0500	U	ND		0.0469	mg/L	3.82	93.7	(0%-20%)			
QC1206013214 709770002 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25	14:30
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			52.8		10.5	ug/L	.335		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			39.3	J	11.9	ug/L	51.2		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Calcium			7170		1470	ug/L	2.24		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **709770**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753772										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	03/04/25 14:30
Iron	J	68.0	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	9.34	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		3550		714	ug/L	.494		(0%-20%)		
Manganese	J	1.20	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.273	U	ND	ug/L	N/A		(0%-20%)		
Potassium		3110		683	ug/L	9.82		(0%-20%)		
Selenium	J	2.40	J	2.05	ug/L	327		(0%-20%)		
Sodium		8700		1670	ug/L	3.84		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2754499										
QC1206014614 707629003 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/25/25 12:18
QC1206014613 LCS										
Mercury	0.00200			0.00199	mg/L		99.3	(80%-120%)		02/25/25 12:14

QC Summary

Workorder: **709770**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Metals Analysis-Mercury												
Batch 2754499												
QC1206014612 MB												
Mercury				U	ND	mg/L					JP2	02/25/25 12:13
QC1206014615 707629003 MS												
Mercury	0.00200	U	ND		0.000914	mg/L			45.7*	(75%-125%)		02/25/25 12:19
QC1206014618 707629003 PS												
Mercury	2.00	U	ND		0.948	ug/L			47.4*	(80%-120%)		02/25/25 12:26
QC1206014616 707629003 SDILT												
Mercury		U	ND	U	ND	ug/L	N/A			(0%-10%)		02/25/25 12:24
Solids Analysis												
Batch 2755063												
QC1206015752 709657007 DUP												
Total Dissolved Solids		J	8.00	J	5.00	mg/L	46.2	^		(+/-10.0)	RR4	02/24/25 13:32
QC1206015750 LCS												
Total Dissolved Solids	300				285	mg/L			95	(95%-105%)		02/24/25 13:32
QC1206015749 MB												
Total Dissolved Solids				U	ND	mg/L						02/24/25 13:32
Batch 2755622												
QC1206016940 710034003 DUP												
Total Dissolved Solids			378		378	mg/L	0			(0%-5%)	RR4	02/25/25 12:41
QC1206016938 LCS												
Total Dissolved Solids	300				295	mg/L			98.3	(95%-105%)		02/25/25 12:41
QC1206016937 MB												
Total Dissolved Solids				U	ND	mg/L						02/25/25 12:41

QC Summary

Workorder: **709770**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch 2756294											
QC1206018343 709718001 DUP											
Total Dissolved Solids		117		119	mg/L	1.69		(0%-5%)	RR4	02/26/25	11:32
QC1206018342 LCS											
Total Dissolved Solids	300			285	mg/L		95	(95%-105%)		02/26/25	11:32
QC1206018341 MB											
Total Dissolved Solids			U	ND	mg/L					02/26/25	11:32
Titration and Ion Analysis											
Batch 2753709											
QC1206013132 LCS											
Alkalinity, Total as CaCO3	50.0			53.2	mg/L		106	(90%-110%)	JW2	02/20/25	12:31
QC1206013133 LCS											
Alkalinity, Total as CaCO3	15.0			15.5	mg/L		103	(90%-110%)		02/20/25	12:33
QC1206013134 LCSD											
Alkalinity, Total as CaCO3	50.0			53.5	mg/L	0.562	107	(0%-20%)		02/20/25	12:32
QC1206013135 LCSD											
Alkalinity, Total as CaCO3	15.0			15.6	mg/L	0.643	104	(0%-20%)		02/20/25	12:34

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded

QC Summary

Workorder: **709770**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 709658-A
Work Order #: 709770

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2753772

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2753769

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709770001	BRA-APBCD-FD-01
709770002	BRA-BRGWA-23S
709770003	BRA-BRGWC-25I
709770004	BRA-BRGWC-29I
709770005	BRA-BRGWC-52I
709770006	BRA-PZ-63I
709770007	BRA-PZ-68D
709770008	BRA-APBCD-FB-02
709770009	BRA-BRGWC-27I
709770010	BRA-BRGWC-30I
709770011	BRA-BRGWC-32S
709770012	BRA-BRGWC-44
709770013	BRA-BRGWC-45
709770014	BRA-APBCD-EB-05
709770015	BRA-APBCD-FD-02
1206013210	Method Blank (MB)**ICP-MS**
1206013211	Laboratory Control Sample (LCS)
1206013214	709770002(BRA-BRGWA-23SL) Serial Dilution (SD)
1206013212	709770002(BRA-BRGWA-23SS) Matrix Spike (MS)
1206013213	709770002(BRA-BRGWA-23SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 709770001 (BRA-APBCD-FD-01), 709770003 (BRA-BRGWC-25I), 709770004 (BRA-BRGWC-29I), 709770005 (BRA-BRGWC-52I), 709770006 (BRA-PZ-63I), 709770007 (BRA-PZ-68D), 709770009 (BRA-BRGWC-27I), 709770010 (BRA-BRGWC-30I), 709770011 (BRA-BRGWC-32S), 709770012 (BRA-BRGWC-44) and 709770015 (BRA-APBCD-FD-02) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	709770									
	001	**003**	**004**	**005**	**006**	**007**	**009**	**010**	**011**	**012**
Boron	10X	10X	10X	20X	10X	10X	10X	20X	10X	10X
Calcium	10X	10X	10X	1X	10X	10X	1X	20X	1X	1X
Magnesium	1X	1X	1X	1X	1X	1X	1X	20X	1X	1X
Manganese	10X	10X	10X	1X	10X	1X	1X	20X	1X	1X
Sodium	1X	1X	1X	1X	1X	10X	1X	1X	1X	1X

Analyte	709770
	015
Boron	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2754499

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2754489

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709770001	BRA-APBCD-FD-01
709770002	BRA-BRGWA-23S
709770003	BRA-BRGWC-25I
709770004	BRA-BRGWC-29I
709770005	BRA-BRGWC-52I
709770006	BRA-PZ-63I
709770007	BRA-PZ-68D
709770008	BRA-APBCD-FB-02
709770009	BRA-BRGWC-27I
709770010	BRA-BRGWC-30I
709770011	BRA-BRGWC-32S
709770012	BRA-BRGWC-44
709770013	BRA-BRGWC-45
709770014	BRA-APBCD-EB-05
709770015	BRA-APBCD-FD-02
1206014612	Method Blank (MB)**CVAA**

1206014613	Laboratory Control Sample (LCS)
1206014616	707629003(NonSDGL) Serial Dilution (SD)
1206014614	707629003(NonSDGD) Sample Duplicate (DUP)
1206014615	707629003(NonSDGS) Matrix Spike (MS)
1206014618	707629003(NonSDGPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1206014615 (Non SDG 707629003MS)	Mercury	45.7* (75%-125%)

Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1206014618 (Non SDG 707629003PS)	Mercury	47.4* (80%-120%)

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2753903

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709770001	BRA-APBCD-FD-01
709770002	BRA-BRGWA-23S
709770003	BRA-BRGWC-25I
709770004	BRA-BRGWC-29I
709770005	BRA-BRGWC-52I
709770006	BRA-PZ-63I
709770007	BRA-PZ-68D

709770008	BRA-APBCD-FB-02
709770009	BRA-BRGWC-27I
709770010	BRA-BRGWC-30I
709770011	BRA-BRGWC-32S
709770012	BRA-BRGWC-44
709770013	BRA-BRGWC-45
709770014	BRA-APBCD-EB-05
709770015	BRA-APBCD-FD-02
1206013423	Method Blank (MB)
1206013424	Laboratory Control Sample (LCS)
1206013425	709770012(BRA-BRGWC-44) Sample Duplicate (DUP)
1206013426	709770012(BRA-BRGWC-44) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1206013425 (BRA-BRGWC-44DUP), 1206013426 (BRA-BRGWC-44PS), 709770001 (BRA-APBCD-FD-01), 709770003 (BRA-BRGWC-25I), 709770004 (BRA-BRGWC-29I), 709770005 (BRA-BRGWC-52I), 709770006 (BRA-PZ-63I), 709770007 (BRA-PZ-68D), 709770009 (BRA-BRGWC-27I), 709770010 (BRA-BRGWC-30I), 709770011 (BRA-BRGWC-32S), 709770012 (BRA-BRGWC-44), 709770013 (BRA-BRGWC-45) and 709770015 (BRA-APBCD-FD-02) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	709770									
	001	**003**	**004**	**005**	**006**	**007**	**009**	**010**	**011**	**012**
Chloride	1X	20X	1X	1X	1X	2X	1X	1X	1X	1X
Sulfate	40X	20X	40X	10X	50X	25X	10X	100X	20X	5X

Analyte	709770	
	013	**015**
Chloride	5X	1X
Sulfate	20X	5X

Miscellaneous Information

Manual Integrations
Samples 1206013425 (BRA-BRGWC-44DUP), 709770002 (BRA-BRGWA-23S), 709770005 (BRA-BRGWC-52I), 709770006 (BRA-PZ-63I), 709770007 (BRA-PZ-68D), 709770009 (BRA-BRGWC-27I), 709770011 (BRA-BRGWC-32S), 709770012 (BRA-BRGWC-44), 709770013 (BRA-BRGWC-45) and 709770015 (BRA-APBCD-FD-02) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2755063

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709770002	BRA-BRGWA-23S
1206015749	Method Blank (MB)
1206015750	Laboratory Control Sample (LCS)
1206015752	709657007(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2755622

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709770001	BRA-APBCD-FD-01
709770003	BRA-BRGWC-25I
709770004	BRA-BRGWC-29I
709770005	BRA-BRGWC-52I
709770006	BRA-PZ-63I
709770007	BRA-PZ-68D
709770008	BRA-APBCD-FB-02
709770009	BRA-BRGWC-27I
709770010	BRA-BRGWC-30I
709770011	BRA-BRGWC-32S
1206016937	Method Blank (MB)
1206016938	Laboratory Control Sample (LCS)
1206016940	710034003(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 709770007 (BRA-PZ-68D) and 709770010 (BRA-BRGWC-30I).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2756294

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709770012	BRA-BRGWC-44
709770013	BRA-BRGWC-45
709770014	BRA-APBCD-EB-05
709770015	BRA-APBCD-FD-02
1206018341	Method Blank (MB)
1206018342	Laboratory Control Sample (LCS)
1206018343	709718001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2753709

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709770001	BRA-APBCD-FD-01
709770002	BRA-BRGWA-23S
709770003	BRA-BRGWC-25I
709770004	BRA-BRGWC-29I
709770005	BRA-BRGWC-52I
709770006	BRA-PZ-63I
709770007	BRA-PZ-68D
709770008	BRA-APBCD-FB-02
709770009	BRA-BRGWC-27I
709770010	BRA-BRGWC-30I
709770011	BRA-BRGWC-32S
709770012	BRA-BRGWC-44
709770013	BRA-BRGWC-45
709770014	BRA-APBCD-EB-05
709770015	BRA-APBCD-FD-02
1206013132	Laboratory Control Sample (LCS)
1206013133	Laboratory Control Sample (LCS)
1206013134	Laboratory Control Sample Duplicate (LCSD)
1206013135	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 709658

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2753351

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2753350

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709658001	BRA-BRGWC-47
709658002	BRA-PZ-74I
709658003	BRA-PZ-75I
709658004	BRA-APBCD-FB-01
709658005	BRA-APBCD-EB-04
1206012426	Method Blank (MB)**ICP-MS**
1206012427	Laboratory Control Sample (LCS)
1206012430	709658001(BRA-BRGWC-47L) Serial Dilution (SD)
1206012428	709658001(BRA-BRGWC-47S) Matrix Spike (MS)
1206012429	709658001(BRA-BRGWC-47SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 709658001 (BRA-BRGWC-47), 709658002 (BRA-PZ-74I) and 709658003 (BRA-PZ-75I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	709658		
	001	002	003

Boron	10X	10X	10X
Calcium	10X	10X	1X
Magnesium	10X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2754514

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2754509

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709658001	BRA-BRGWC-47
709658002	BRA-PZ-74I
709658003	BRA-PZ-75I
709658004	BRA-APBCD-FB-01
709658005	BRA-APBCD-EB-04
1206014643	Method Blank (MB)**CVAA**
1206014644	Laboratory Control Sample (LCS)
1206014647	708763001(NonSDGL) Serial Dilution (SD)
1206014645	708763001(NonSDGS) Matrix Spike (MS)
1206014646	708763001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2753353

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709658001	BRA-BRGWC-47
709658002	BRA-PZ-74I
709658003	BRA-PZ-75I
709658004	BRA-APBCD-FB-01
709658005	BRA-APBCD-EB-04

1206012438	Method Blank (MB)
1206012439	Laboratory Control Sample (LCS)
1206012442	709660005(BRA-BRGWA-6S) Sample Duplicate (DUP)
1206012443	709660005(BRA-BRGWA-6S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 709658001 (BRA-BRGWC-47), 709658002 (BRA-PZ-74I) and 709658003 (BRA-PZ-75I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	709658		
	001	**002**	**003**
Chloride	1X	2X	1X
Sulfate	100X	20X	20X

Sample Re-analysis
Sample 709658002 (BRA-PZ-74I) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations
Samples 1206012442 (BRA-BRGWA-6SDUP), 1206012443 (BRA-BRGWA-6SPS), 709658002 (BRA-PZ-74I) and 709658003 (BRA-PZ-75I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2755063

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709658001	BRA-BRGWC-47
709658002	BRA-PZ-74I
709658003	BRA-PZ-75I
709658004	BRA-APBCD-FB-01
709658005	BRA-APBCD-EB-04
1206015749	Method Blank (MB)
1206015750	Laboratory Control Sample (LCS)
1206015751	709596044(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1206015751 (Non SDG 709596044DUP)	8.53* (0%-5%)

Miscellaneous Information

Additional Comments
A TDS meter was used to check the sample for approximate concentration prior to analysis. 709658001 (BRA-BRGWC-47).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2753332

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709658001	BRA-BRGWC-47
709658002	BRA-PZ-74I
709658003	BRA-PZ-75I
709658004	BRA-APBCD-FB-01
709658005	BRA-APBCD-EB-04
1206012395	Laboratory Control Sample (LCS)
1206012396	Laboratory Control Sample (LCS)
1206012397	Laboratory Control Sample Duplicate (LCSD)
1206012398	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project #
GEL Quote #:
COC Number [1]:
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

709770
709774

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: P. Schuler, J. Bonsteel, T. Gobble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
BRA- APBCD-FD-01	02/19/25	—	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWA-23S	02/18/25	1211	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWC-25I	02/19/25	1202	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWC-29I	02/19/25	1028	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWC-52I	02/19/25	1014	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- PZ-63I	02/19/25	1155	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- PZ-68D	02/19/25	0930	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- APBCD-FB-02	02/19/25	1300	G	N	WQ	N	N	6	✓	✓	✓	✓	
BRA- BRGWC-27I	02/19/25	1414	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWC-30I	02/19/25	1525	G	N	WG	N	N	6	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2025S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Dawn Gosa	2/20/25	0910	Tyasia Tatum	2/20/25	910
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: P. Johnson, J. Bransford, T. Goble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
BRA- BRGWC-325	02/19/25	1508	G	N	WG	N	N	6	✓	✓	—	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2025S1
BRA- BRGWC-44	02/19/25	1633	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWC-45	02/19/25	1609	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- APBCD-EB-05	02/19/25	1645	G	N	WQ	N	N	6	✓	✓	✓	✓		
BRA- APBCD-FD-02	02/19/25	—	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2/20/25	0910	1	2/20/25	910
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

709770 709774

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: | GEL PM: AP

Received By: CLM | Date Received at GEL: 2/20/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other: | IR Temp gun # IR5-23 Daily Calibration Performed? (Y) N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	0°				
2	0°				
3	0°				
4	0°				
5	0°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer). Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No). Are liquid VOA vials free of headspace? Yes___ No___ NA___. Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HB Date FEB 21 2025

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

709658
& 709659

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: S.Bonsford D.Johnson, T.Gobble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
BRA- BRGWC-47	02/18/25	1654	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- PZ-74I	02/18/25	1638	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- PZ-75I	02/18/25	1442	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- APBCD-FB-01	02/18/25	1720	G	N	WQ	N	N	6	✓	✓	✓	✓	
BRA- APBCD-EB-04	02/18/25	1530	G	N	WQ	N	N	6	✓	✓	✓	✓	
BRA-													
BRA-													
BRA-													
BRA-													
BRA-													

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2025S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		2/19/25	0810		2/19/25	0810
2		2/19/25	1310		2/19/25	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

709660 709658
709661 709659

Client: GPCC | SDG/AR/COC/Work Order: | GEL PM:

Received By: QG | Date Received at GEL: 2/19/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le radiochem only).
Cooler 1	0°C				
2	0°C				
3	0°C				
4	0°C				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HB Date FEB 20 2025

☐ Continuation Form Required when selected

List of current GEL Certifications as of 14 May 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

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Memorandum

Date:	17 June 2025
To:	Courtney Collins
From:	Ashley Wilson
CC:	Matthew Richardson
	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – GEL Laboratories, LLC Work Order 709660, Revision 1**

SITE: Plant Branch CCR Groundwater Compliance Upgradient Monitoring AP-BCD & AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five groundwater samples collected 18 February 2025, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I

Laboratory IDs	Client IDs
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S

The samples were received at 0 degrees Celsius (°C), outside of the EPA Region 4 criteria of 4°C ± 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

709660: The laboratory reports were revised on 05/14/2025 to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs. The laboratory report was identified as 709660, Revision 1.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Blank
✓ Equipment Blank

- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The metals were not detected in the method blank at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Field blanks were not reported with the sample set.

1.8 Equipment Blank

Equipment blanks were not reported with the sample set.

1.9 Field Duplicate

Field duplicates were not reported with the sample set.

1.10 Serial Dilution

A batch serial dilution was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank

- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Mercury was not detected in the method blank at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

A batch laboratory duplicate was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Field blanks were not reported with the sample set.

2.8 Equipment Blank

Equipment blanks were not reported with the sample set.

2.9 Field Duplicate

Field duplicates were not reported with the sample set.

2.10 Serial Dilution

A batch serial dilution was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment

- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

709660: The laboratory noted that BRA-BRGWA-5I, BRA-BRGWA-5S, BRA-BRGWA-2I, BRA-BRGWA-2S and BRA-BRGWA-6S were manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis. No qualifications were applied to the data, based on professional and technical judgment.

3.2 Holding Times

The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding time for TDS is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met for these analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS was reported for anions, using sample BRA-BRGWA-6S. The recovery results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for anions, using sample BRA-BRGWA-6S. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.7 Field Blank

Field blanks were not reported with the sample set.

3.8 Equipment Blank

Equipment blanks were not reported with the sample set.

3.9 Field Duplicate

Field duplicates were not reported with the sample set.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D

DQM Reason Code	Description
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result

DQM Reason Code	Description
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL

DQM Reason Code	Description
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration

ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	17 June 2025
To:	Courtney Collins
From:	Ashley Wilson
CC:	Matthew Richardson
	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 709658, Revision 1, 709770 Revision 1 and 710955, Revision 1**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring AP-BCD & AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-five groundwater samples, four equipment blanks, four field blanks and four field duplicate samples collected 18-19 and 26 February 2025, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
709658001	BRA-BRGWC-47
709658002	BRA-PZ-74I
709658003	BRA-PZ-75I
709658004	BRA-APBCD-FB-01
709658005	BRA-APBCD-EB-04
709770001	BRA-APBCD-FD-01
709770002	BRA-BRGWA-23S
709770003	BRA-BRGWC-25I
709770004	BRA-BRGWC-29I
709770005	BRA-BRGWC-52I
709770006	BRA-PZ-63I
709770007	BRA-PZ-68D
709770008	BRA-APBCD-FB-02
709770009	BRA-BRGWC-27I
709770010	BRA-BRGWC-30I
709770011	BRA-BRGWC-32S
709770012	BRA-BRGWC-44
709770013	BRA-BRGWC-45
709770014	BRA-APBCD-EB-05

Laboratory IDs	Client IDs
709770015	BRA-APBCD-FD-02
710955001	BRA-PZ-53D
710955002	BRA-BRGWC-38S
710955003	BRA-APE-FD-04
710955004	BRA-PZ-13S
710955005	BRA-BRGWC-33S
710955006	BRA-APE-FB-07
710955007	BRA-APE-EB-09
710955008	BRA-BRGWC-36S
710955009	BRA-PZ-70I
710955010	BRA-BRGWC-35S
710955011	BRA-APE-FD-05
710955012	BRA-APE-EB-10
710955013	BRA-BRGWC-37S
710955014	BRA-APE-FB-08
710955015	BRA-BRGWC-17S
710955016	BRA-BRGWC-34S
710955017	BRA-PZ-52D

The samples were received at 0 degrees Celsius (°C), outside of the EPA Region 4 criteria of 4°C ± 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

709658, 709770 and 710955: The laboratory reports were revised on 05/14/2025 to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs. The laboratory report was identified as 709658, Revision 1, 709770 Revision 1 and 710955, Revision 1.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
⊗ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
✓ Equipment Blank
⊗ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The metals were not detected in the method blanks at or above the method detection limits (MDLs), with the following exceptions.

Boron (0.00724 mg/L) and selenium (0.00168 mg/L) were detected in the method blank in batch 2753772 at estimated concentrations greater than the MDL and less than the reporting limit (RL). Therefore, the estimated concentrations of boron and selenium were U qualified as not detected above the RL, and the concentrations greater than the RL and less than ten times the blank concentrations were J+ qualified as estimated with a high bias. Concentrations greater than ten times the blank concentrations were not qualified. The final qualification for the boron concentration in field duplicate BRA-APE-FD-04 was UJ qualified as estimated less than the MDL due to the field duplicate pair noncalculable RPD and blank contamination.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-APBCD-EB-05	Selenium	0.00249	J	0.00500	U	BC1
BRA-APBCD-FB-02	Selenium	0.00189	J	0.00500	U	BC1
BRA-APBCD-FD-01	Selenium	0.00447	J	0.00500	U	BC1
BRA-APBCD-FD-02	Selenium	0.00191	J	0.00500	U	BC1
BRA-BRGWA-23S	Selenium	0.00240	J	0.00500	U	BC1
BRA-BRGWC-25I	Selenium	0.00217	J	0.00500	U	BC1
BRA-BRGWC-27I	Selenium	0.00309	J	0.00500	U	BC1
BRA-BRGWC-29I	Selenium	0.00450	J	0.00500	U	BC1
BRA-BRGWC-30I	Selenium	0.00316	J	0.00500	U	BC1
BRA-BRGWC-44	Selenium	0.00202	J	0.00500	U	BC1
BRA-BRGWC-45	Selenium	0.00237	J	0.00500	U	BC1
BRA-BRGWC-52I	Selenium	0.00198	J	0.00500	U	BC1
BRA-PZ-63I	Selenium	0.00262	J	0.00500	U	BC1
BRA-PZ-68D	Selenium	0.00205	J	0.00500	U	BC1
BRA-APBCD-EB-05	Boron	0.0126	J	0.0150	U	BC1
BRA-APBCD-FB-02	Boron	0.0133	J	0.0150	U	BC1
BRA-BRGWA-23S	Boron	0.0393	NA	0.0393	J+	BC1
BRA-BRGWC-45	Boron	0.0537	NA	0.0537	J+	BC1

mg/L- milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three sample set specific MS/MSD pairs were reported, using samples BRA-BRGWC-47, BRA-BRGWA-23S and BRA-PZ-53D. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Four field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APE-FB-07 and BRA-APE-FB-08, were collected with the sample set. Metals were not detected in the field blanks at or above the MDLs, with the following exceptions.

709658: Boron (0.0122 mg/L) and magnesium (0.0216 mg/L) were detected in field blank BRA-APBCD-FB-01 at estimated concentrations greater than the MDLs and less than the RLs. Since the boron concentration in sample BRA-BRGWA-23S was previously qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data. Additionally, the other concentrations of boron and magnesium in the associated samples were greater than ten times the field blank concentrations, and based on technical and professional judgement, no qualifications were applied to the data.

709770: Boron (0.0133 mg/L) and selenium (0.00189 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APBCD-FB-02. Since the boron and selenium concentrations in the equipment blank were previously qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

710955: Boron (0.0516 mg/L) was detected at a concentration greater than the RL and manganese (0.00365 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APE-FB-07. Therefore, the estimated concentrations of boron and manganese were U qualified as not detected above the RL, and the concentrations greater than the RL and less than ten times the blank concentrations were J+ qualified as estimated with a high bias. Concentrations greater than ten times the blank concentrations were not qualified.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APE-EB-09	Boron	0.0116	J	0.0150	U	BFH
BRA-APE-EB-10	Boron	0.00750	J	0.0150	U	BFH
BRA-APE-FD-04	Manganese	0.00192	J	0.00500	U	BFH
BRA-APE-FD-04	Boron	0.0397	NA	0.0397	U	BFH
BRA-BRGWC-17S	Manganese	0.00225	J	0.00500	U	BFH
BRA-BRGWC-17S	Boron	0.0756	NA	0.0756	J+	BFH
BRA-BRGWC-35S	Manganese	0.0107	NA	0.0107	J+	BFH
BRA-BRGWC-36S	Manganese	0.00188	J	0.00500	U	BFH
BRA-BRGWC-37S	Manganese	0.00183	J	0.00500	U	BFH
BRA-BRGWC-37S	Boron	0.00753	J	0.0150	U	BFH
BRA-PZ-13S	Manganese	0.00179	J	0.00500	U	BFH
BRA-PZ-13S	Boron	0.0140	J	0.0150	U	BFH
BRA-PZ-52D	Manganese	0.00289	J	0.00500	U	BFH
BRA-PZ-52D	Boron	0.0842	NA	0.0842	J+	BFH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

1.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10, were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

709770: Boron (0.0126 mg/L), selenium (0.00249 mg/L) and potassium (0.0903 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in equipment

blank BRA-APBCD-EB-05. Since the boron and selenium concentrations in the equipment blank were previously qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data. Since the concentrations of potassium in the associated samples was greater than ten times the equipment blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

710955: Boron (0.0116 mg/L and 0.00750 mg/L) was detected at estimated concentrations greater than the MDLs and less than the RLs in equipment blanks BRA-APE-EB-09 and BRA-APE-EB-10, respectively. Since the boron concentrations in the equipment blanks BRA-APE-EB-09 and BRA-APE-EB-10 were previously qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.9 Field Duplicate

Four duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < RL] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-29I, BRA-BRGWC-44, BRA-PZ-13S and BRA-BRGWC-34S, respectively, with the following exceptions.

709770: The RPD of boron in field duplicate pair BRA-APBCD-FD-01/BRA-BRGWC-29I was greater than 20%. Therefore, the concentrations of boron in the field duplicate pair were J qualified as estimated.

710955: Beryllium was detected in field duplicate, BRA-APE-FD-05, at an estimated concentration greater than the MDL and less than the RL and not detected in parent sample, BRA-BRGWC-34S, resulting in a noncalculable RPD between the results. Therefore, based on professional and technical judgment, the concentration of beryllium was J qualified as estimated and the nondetect result was UJ qualified as estimated less than the RL in the field duplicate pair.

Boron was detected in field duplicate, BRA-APE-FD-04, at concentration greater than the RL and detected in parent sample, BRA-BRGWC-34S, at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD between the results. Therefore, based on professional and technical judgment, the concentrations of boron in the field duplicate pair were J qualified as estimated. The final qualification for the boron concentration in field duplicate BRA-APE-FD-04 was UJ qualified as estimated less than the MDL due to the field duplicate pair noncalculable RPD and blank contamination.

Sample	Analyte	Laboratory Result (mg/l)	Laboratory Flag	RPD	Validation Result (mg/l)	Validation Qualifier	Reason Code
BRA-APBCD-FD-01	Boron	1.09	NA	35	1.09	J	RPDF1
BRA-BRGWC-29I	Boron	1.56	NA		1.56	J	RPDF1
BRA-APE-FD-05	Beryllium	0.000210	J	NC	0.000210	J	RPDF2
BRA-BRGWC-34S	Beryllium	0.000500	U		0.000500	UJ	RPDF2
BRA-APE-FD-04	Boron	0.0397	NA	NC	0.0397	J	RPDF2
BRA-PZ-13S	Boron	0.0140	J		0.0140	J	RPDF2

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

NC-not calculable

1.10 Serial Dilution

Three sample set specific serial dilutions were reported for metals using samples BRA-BRGWC-47, BRA-BRGWA-23S and BRA-PZ-53D. The percent difference (%D) results were within the method specified acceptance criteria, with the following exceptions.

709770: The %D for boron in the serial dilution using sample BRA-BRGWA-23S was high and outside of the laboratory specified acceptance criteria. Since the boron concentration in the initial analysis of sample BRA-BRGWA-23S was less than fifty times the MDL, no qualifications were applied to the data.

710955: The %D for boron in the serial dilution using sample BRA-PZ-53D was high and outside of the laboratory specified acceptance criteria. Since the boron concentration in the initial analysis of sample BRA-PZ-53D was less than fifty times the MDL, no qualifications were applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ⊗ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS was reported using sample BRA-PZ-53D. The recovery results were within the laboratory specified acceptance criteria.

Batch MSs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported using sample BRA-PZ-53D. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Four field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APE-FB-07 and BRA-APE-FB-08, were collected with the sample set. Mercury was not detected in the field blanks at or above the MDL.

2.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10, were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Field Duplicate

Four duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-29I, BRA-BRGWC-44, BRA-PZ-13S and BRA-BRGWC-34S, respectively, with the following exceptions.

709770: Mercury was detected at a concentration greater than the RL in sample BRA-BRGWC-29I and not detected in field duplicate BRA-APBCD-FD-01, resulting in a noncalculable RPD between the results. Therefore, the nondetect mercury result in BRA-APBCD-FD-01 was UJ qualified as estimated below the RL and the detected concentration in BRA-BRGWC-29I was J qualified as estimated.

710955: Mercury was detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-34S and not detected in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/l)	Laboratory Flag	RPD	Validation Result (mg/l)	Validation Qualifier	Reason Code
BRA-APBCD-FD-01	Mercury	0.000200	U	NC	0.000200	UJ	RPDF2
BRA-BRGWC-29I	Mercury	0.000384	NA		0.000384	J	RPDF2

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable
NC-not calculable

2.10 Serial Dilution

One sample set specific serial dilution was performed using sample BRA-PZ-53D. The %D results were within the method specified acceptance criteria.

Batch serial dilutions were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

709658, 709770 and 710955: The laboratory noted that BRA-PZ-74I, BRA-PZ-75I, BRA-BRGWA-23S, BRA-BRGWC-52I, BRA-PZ-63I, BRA-PZ-68D, BRA-BRGWC-27I, BRA-BRGWC-32S, BRA-BRGWC-44, BRA-BRGWC-45, BRA-APBCD-FD-02, BRA-PZ-53D, BRA-BRGWC-38S, BRA-APE-FD-04, BRA-PZ-13S, BRA-BRGWC-36S, BRA-BRGWC-35S, BRA-APE-FD-05, BRA-BRGWC-37S, BRA-BRGWC-17S, BRA-BRGWC-34S and BRA-PZ-52D were manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding time for TDS is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met for these analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MSs were reported for anions, using samples BRA-BRGWC-44 and BRA-PZ-53D. The recovery results were within the laboratory specified acceptance criteria.

Batch MSs were also reported for anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for anions, using samples BRA-BRGWC-44 and BRA-PZ-53D. The RPD results were within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for TDS, using sample BRA-PZ-52D. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.7 Field Blank

Four field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APE-FB-07 and BRA-APE-FB-08, were collected with the sample set. Wet chemistry parameters were not detected in the field blanks at or above the MDLs, with the following exceptions.

710955: Sulfate (0.269 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APE-FB-07. Therefore, the estimated concentration of sulfate in sample BRA-BRGWC-37S was U qualified as not detected above the RL. Concentrations greater than ten times the blank concentrations were not qualified.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-37S	Sulfate	0.348	J	0.400	U	BFH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10, were collected with the sample set. Wet chemistry parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

710955: Chloride (0.192 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-09. Since the concentrations of chloride in the associated samples were detected at concentrations greater than ten times the equipment blank contamination and based on professional and technical judgment, no qualifications were applied to the data.

3.9 Field Duplicate

Four duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-29I, BRA-BRGWC-44, BRA-PZ-13S and BRA-BRGWC-34S, respectively.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D

DQM Reason Code	Description
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result

DQM Reason Code	Description
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL

DQM Reason Code	Description
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration

ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

March 17, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Branch Ash Ponds Upgradient-Radiochemistry
Work Order: 709661

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 19, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
709661001	BRA-BRGWA-5I	Ground Water	02/18/25 10:02	02/19/25 13:10
709661002	BRA-BRGWA-5S	Ground Water	02/18/25 09:59	02/19/25 13:10
709661003	BRA-BRGWA-2I	Ground Water	02/18/25 10:30	02/19/25 13:10
709661004	BRA-BRGWA-2S	Ground Water	02/18/25 11:25	02/19/25 13:10
709661005	BRA-BRGWA-6S	Ground Water	02/18/25 13:05	02/19/25 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	17-MAR-2025
EPA 903.1 Modified	12-MAR-2025
EPA 904.0/SW846 9320 Modified	15-MAR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC002 Georgia Power Company

Client SDG: 709661 GEL Work Order: 709661

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-5I
Sample ID: 709661001
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.399	+/-0.715	1.28	+/-0.722	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.475	+/-0.724	1.28	+/-0.731		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0763	+/-0.111	0.195	+/-0.113	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	83	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-5S
Sample ID: 709661002
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.335	+/-1.21	2.18	+/-1.21	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.30	+/-1.24	2.18	+/-1.26		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.968	+/-0.289	0.165	+/-0.362	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	80.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-2I Project: GPCC00325
Sample ID: 709661003 Client ID: GPCC002
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.932	+/-1.04	1.73	+/-1.06	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.02	+/-1.05	1.73	+/-1.08		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0840	+/-0.184	0.340	+/-0.185	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	80.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-2S
Sample ID: 709661004
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.372	+/-0.980	1.78	+/-0.985	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.747	+/-1.00	1.78	+/-1.01		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.376	+/-0.216	0.272	+/-0.231	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	77.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-6S
Sample ID: 709661005
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.57	+/-1.01	1.51	+/-1.09	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.33	+/-1.05	1.51	+/-1.14		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.753	+/-0.290	0.269	+/-0.325	1.00	pCi/L			RS2	03/12/25	1030	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	79.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2753850

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709661001	BRA-BRGWA-5I
709661002	BRA-BRGWA-5S
709661003	BRA-BRGWA-2I
709661004	BRA-BRGWA-2S
709661005	BRA-BRGWA-6S

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2753845

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709661001	BRA-BRGWA-5I
709661002	BRA-BRGWA-5S
709661003	BRA-BRGWA-2I
709661004	BRA-BRGWA-2S
709661005	BRA-BRGWA-6S
1206013339	Method Blank (MB)
1206013340	709659001(BRA-BRGWC-47) Sample Duplicate (DUP)
1206013341	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2754859

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709661001	BRA-BRGWA-5I
709661002	BRA-BRGWA-5S
709661003	BRA-BRGWA-2I
709661004	BRA-BRGWA-2S
709661005	BRA-BRGWA-6S
1206015311	Method Blank (MB)
1206015312	708930001(NonSDG) Sample Duplicate (DUP)
1206015313	708930001(NonSDG) Matrix Spike (MS)
1206015314	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Aliquot Reduced
1206015312 (Non SDG 708930001DUP) Aliquot was reduced due to limited sample volume. Limited volume due to only having one bottle of the sample. 1206015312 (Non SDG 708930001DUP).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **709661**

Report Date: March 17, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2753845										
QC1206013340 709659001 DUP										
Radium-228	U	1.43		1.83	pCi/L	24		(0% - 100%)	DH1	03/15/2511:45
	Uncert:	+/-1.57		+/-1.17						
	TPU:	+/-1.61		+/-1.26						
QC1206013341 LCS										
Radium-228	84.0			67.4	pCi/L		80.2	(75%-125%)	DH1	03/15/2511:45
	Uncert:			+/-4.47						
	TPU:			+/-17.7						
QC1206013339 MB										
Radium-228			U	0.934	pCi/L				DH1	03/15/2511:45
	Uncert:			+/-1.66						
	TPU:			+/-1.68						
Rad Ra-226										
Batch 2754859										
QC1206015312 708930001 DUP										
Radium-226	U	0.118	U	0.179	pCi/L	0		N/A	RS2	03/12/2510:30
	Uncert:	+/-0.123		+/-0.185						
	TPU:	+/-0.124		+/-0.189						
QC1206015314 LCS										
Radium-226	27.2			25.4	pCi/L		93.4	(75%-125%)	RS2	03/12/2510:30
	Uncert:			+/-1.49						
	TPU:			+/-4.71						
QC1206015311 MB										
Radium-226			U	0.104	pCi/L				RS2	03/12/2510:30
	Uncert:			+/-0.147						
	TPU:			+/-0.148						
QC1206015313 708930001 MS										
Radium-226	138 U	0.118		127	pCi/L		92.1	(75%-125%)	RS2	03/12/2510:30
	Uncert:	+/-0.123		+/-7.20						
	TPU:	+/-0.124		+/-29.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **709661**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

709660
709661

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bentley, D. Johnson, T. Goble, ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
BRA- BR GWA-5I	02/18/25	1002	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BR GWA-5S	02/18/25	0959	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWA-2I	02/18/25	1030	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWA-2S	02/18/25	1125	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWA-6S	02/18/25	1305	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-													
BRA-													
BRA-													
BRA-													
BRA-													

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2025S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		2/19/25	0810		2/19/25	0810
2		2/19/25	1310		2/19/25	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

709660 709658
709661 709659

Client: GPCC	SDG/AR/COC/Work Order:	GEL PM:
Received By: QG	Date Received at GEL: 2/19/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	0°c				
2	0°c				
3	0°c				
4	0°c				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials TTB Date FEB 20 2025

☐ Continuation Form Required when selected

List of current GEL Certifications as of 17 March 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

April 10, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Branch Ash Ponds BCD-Radiochemistry
Work Orders: 709659 and 709774

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 19, 2025 and February 20, 2025. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 709659 in the left-hand footer of the data report. Revision 01 corrects one of the clients sample IDs. Revision 01 updates one of clients sample IDs.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
709659001	BRA-BRGWC-47	Ground Water	02/18/25 16:54	02/19/25 13:10
709659002	BRA-PZ-74I	Ground Water	02/18/25 16:38	02/19/25 13:10
709659003	BRA-PZ-75I	Ground Water	02/18/25 14:42	02/19/25 13:10
709659004	BRA-APBCD-FB-01	Water	02/18/25 17:20	02/19/25 13:10
709659005	BRA-APBCD-EB-04	Water	02/18/25 15:30	02/19/25 13:10
709774001	BRA-APBCD-FD-01	Ground Water	02/19/25 12:00	02/20/25 09:10
709774002	BRA-BRGWA-23S	Ground Water	02/18/25 12:11	02/20/25 09:10
709774003	BRA-BRGWC-25I	Ground Water	02/19/25 12:02	02/20/25 09:10
709774004	BRA-BRGWC-29I	Ground Water	02/19/25 10:28	02/20/25 09:10
709774005	BRA-BRGWC-52I	Ground Water	02/19/25 10:14	02/20/25 09:10
709774006	BRA-PZ-63I	Ground Water	02/19/25 11:55	02/20/25 09:10
709774007	BRA-PZ-68D	Ground Water	02/19/25 09:30	02/20/25 09:10
709774008	BRA-APBCD-FB-02	Water	02/19/25 13:00	02/20/25 09:10
709774009	BRA-BRGWC-27I	Ground Water	02/19/25 14:14	02/20/25 09:10

709774010	BRA-BRGWC-30I	Ground Water	02/19/25 15:25	02/20/25 09:10
709774011	BRA-BRGWC-32S	Ground Water	02/19/25 15:08	02/20/25 09:10
709774012	BRA-BRGWC-44	Ground Water	02/19/25 16:53	02/20/25 09:10
709774013	BRA-BRGWC-45	Ground Water	02/19/25 16:09	02/20/25 09:10
709774014	BRA-APBCD-EB-05	Water	02/19/25 16:45	02/20/25 09:10
709774015	BRA-APBCD-FD-02	Ground Water	02/19/25 12:00	02/20/25 09:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

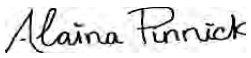
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	17-MAR-2025
Calculation	20-MAR-2025
EPA 903.1 Modified	12-MAR-2025
EPA 903.1 Modified	16-MAR-2025
EPA 904.0/SW846 9320 Modified	15-MAR-2025
EPA 904.0/SW846 9320 Modified	19-MAR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC002 Georgia Power Company

Client SDG: 709659 GEL Work Order: 709659

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWC-47
Sample ID: 709659001
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.43	+/-1.57	2.63	+/-1.61	3.00	pCi/L			DH1	03/15/25	1145	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.18	+/-1.60	2.63	+/-1.65		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.742	+/-0.306	0.273	+/-0.327	1.00	pCi/L			RS2	03/12/25	0925	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	75.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-PZ-74I
Sample ID: 709659002
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.716	+/-1.21	2.39	+/-1.21	3.00	pCi/L			DH1	03/15/25	1145	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.399	+/-1.23	2.39	+/-1.23		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.399	+/-0.207	0.191	+/-0.224	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	77.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-PZ-75I
Sample ID: 709659003
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.888	+/-0.942	1.56	+/-0.969	3.00	pCi/L			DH1	03/15/25	1145	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.59	+/-1.03	1.56	+/-1.10		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.70	+/-0.425	0.280	+/-0.531	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	80	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00325
Sample ID: 709659004 Client ID: GPCC002
Matrix: WQ
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.32	+/-1.37	2.05	+/-1.49	3.00	pCi/L			DH1	03/15/25	1145	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.44	+/-1.38	2.05	+/-1.50		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.117	+/-0.140	0.223	+/-0.141	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	75.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00325
Sample ID: 709659005 Client ID: GPCC002
Matrix: WQ
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.78	+/-1.06	1.52	+/-1.15	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.81	+/-1.06	1.52	+/-1.16		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0232	+/-0.120	0.256	+/-0.120	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	75	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 709774001
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.79	+/-1.76	2.55	+/-2.03	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.23	+/-1.83	2.55	+/-2.10		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.44	+/-0.497	0.323	+/-0.545	1.00	pCi/L			RS2	03/16/25	0816	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	81.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWA-23S
Sample ID: 709774002
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.86	+/-1.56	2.52	+/-1.63	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.42	+/-1.59	2.52	+/-1.67		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.556	+/-0.340	0.355	+/-0.350	1.00	pCi/L			RS2	03/16/25	0816	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	77.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWC-25I
Sample ID: 709774003
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.54	+/-1.07	1.64	+/-1.15	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.94	+/-1.22	1.64	+/-1.30		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.40	+/-0.588	0.615	+/-0.622	1.00	pCi/L			RS2	03/16/25	0816	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	80.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWC-29I
Sample ID: 709774004
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.96	+/-1.30	2.00	+/-1.40	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.67	+/-1.36	2.00	+/-1.46		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.708	+/-0.393	0.484	+/-0.414	1.00	pCi/L			RS2	03/16/25	0816	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	79.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWC-52I
Sample ID: 709774005
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.51	+/-1.19	1.59	+/-1.37	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.91	+/-1.37	1.59	+/-1.57		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.40	+/-0.664	0.426	+/-0.780	1.00	pCi/L			RS2	03/16/25	0816	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	75.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-PZ-63I
Sample ID: 709774006
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.16	+/-0.868	1.31	+/-0.920	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.73	+/-0.934	1.31	+/-0.990		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.576	+/-0.345	0.424	+/-0.365	1.00	pCi/L			RS2	03/16/25	0816	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	85.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-PZ-68D
Sample ID: 709774007
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.02	+/-1.29	2.19	+/-1.32	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.79	+/-1.35	2.19	+/-1.38		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.774	+/-0.399	0.450	+/-0.418	1.00	pCi/L			RS2	03/16/25	0816	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	85.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00325
Sample ID: 709774008 Client ID: GPCC002
Matrix: WQ
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.45	+/-1.27	2.05	+/-1.33	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.73	+/-1.30	2.05	+/-1.36		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.276	+/-0.255	0.352	+/-0.260	1.00	pCi/L			RS2	03/16/25	0816	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	71.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWC-27I
Sample ID: 709774009
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.683	+/-1.04	1.81	+/-1.06	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.44	+/-1.13	1.81	+/-1.16		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.757	+/-0.436	0.548	+/-0.461	1.00	pCi/L			RS2	03/16/25	0848	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	78.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWC-30I
Sample ID: 709774010
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.636	+/-0.963	1.68	+/-0.978	3.00	pCi/L			DH1	03/19/25	1455	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.09	+/-1.04	1.68	+/-1.06		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.452	+/-0.391	0.609	+/-0.397	1.00	pCi/L			RS2	03/16/25	0848	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	78	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWC-32S
Sample ID: 709774011
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.54	+/-1.13	1.77	+/-1.20	3.00	pCi/L			DH1	03/19/25	1456	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.61	+/-1.25	1.77	+/-1.32		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.07	+/-0.520	0.565	+/-0.543	1.00	pCi/L			RS2	03/16/25	0848	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	84.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
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Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWC-44 Project: GPCC00325
Sample ID: 709774012 Client ID: GPCC002
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.496	+/-1.33	2.38	+/-1.34	3.00	pCi/L			DH1	03/19/25	1456	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.947	+/-1.36	2.38	+/-1.37		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.451	+/-0.276	0.288	+/-0.286	1.00	pCi/L			RS2	03/16/25	0848	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	80.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-BRGWC-45 Project: GPCC00325
Sample ID: 709774013 Client ID: GPCC002
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.31	+/-1.18	1.63	+/-1.33	3.00	pCi/L			DH1	03/19/25	1456	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.94	+/-1.23	1.63	+/-1.38		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.626	+/-0.350	0.342	+/-0.368	1.00	pCi/L			RS2	03/16/25	0848	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	78.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00325
Sample ID: 709774014 Client ID: GPCC002
Matrix: WQ
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.478	+/-1.59	2.87	+/-1.60	3.00	pCi/L			DH1	03/19/25	1457	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.750	+/-1.63	2.87	+/-1.64		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.272	+/-0.366	0.628	+/-0.369	1.00	pCi/L			RS2	03/16/25	0848	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	63.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: April 10, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsBCD-Radiochemistry

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00325
Sample ID: 709774015 Client ID: GPCC002
Matrix: WG
Collect Date: 19-FEB-25
Receive Date: 20-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.452	+/-0.967	1.75	+/-0.974	3.00	pCi/L			DH1	03/19/25	1618	2753846	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.38	+/-1.14	1.75	+/-1.18		pCi/L			NXL1	03/20/25	1118	2753851	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.93	+/-0.595	0.504	+/-0.668	1.00	pCi/L			RS2	03/16/25	0848	2754861	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753846	80.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **709659**

Report Date: April 10, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2753845										
QC1206013340 709659001 DUP										
Radium-228	U	1.43		1.83	pCi/L	24		(0% - 100%)	DH1	03/15/2511:45
	Uncert:	+/-1.57		+/-1.17						
	TPU:	+/-1.61		+/-1.26						
QC1206013341 LCS										
Radium-228	84.0			67.4	pCi/L		80.2	(75%-125%)	DH1	03/15/2511:45
	Uncert:			+/-4.47						
	TPU:			+/-17.7						
QC1206013339 MB										
Radium-228			U	0.934	pCi/L				DH1	03/15/2511:45
	Uncert:			+/-1.66						
	TPU:			+/-1.68						
Rad Ra-226										
Batch 2754859										
QC1206015312 708930001 DUP										
Radium-226	U	0.118	U	0.179	pCi/L	0		N/A	RS2	03/12/2510:30
	Uncert:	+/-0.123		+/-0.185						
	TPU:	+/-0.124		+/-0.189						
QC1206015314 LCS										
Radium-226	27.2			25.4	pCi/L		93.4	(75%-125%)	RS2	03/12/2510:30
	Uncert:			+/-1.49						
	TPU:			+/-4.71						
QC1206015311 MB										
Radium-226			U	0.104	pCi/L				RS2	03/12/2510:30
	Uncert:			+/-0.147						
	TPU:			+/-0.148						
QC1206015313 708930001 MS										
Radium-226	138 U	0.118		127	pCi/L		92.1	(75%-125%)	RS2	03/12/2510:30
	Uncert:	+/-0.123		+/-7.20						
	TPU:	+/-0.124		+/-29.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **709659**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 709659-A
Work Order #: 709774

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2753851

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709774001	BRA-APBCD-FD-01
709774002	BRA-BRGWA-23S
709774003	BRA-BRGWC-25I
709774004	BRA-BRGWC-29I
709774005	BRA-BRGWC-52I
709774006	BRA-PZ-63I
709774007	BRA-PZ-68D
709774008	BRA-APBCD-FB-02
709774009	BRA-BRGWC-27I
709774010	BRA-BRGWC-30I
709774011	BRA-BRGWC-32S
709774012	BRA-BRGWC-44
709774013	BRA-BRGWC-45
709774014	BRA-APBCD-EB-05
709774015	BRA-APBCD-FD-02

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2753846

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709774001	BRA-APBCD-FD-01
709774002	BRA-BRGWA-23S
709774003	BRA-BRGWC-25I
709774004	BRA-BRGWC-29I
709774005	BRA-BRGWC-52I
709774006	BRA-PZ-63I

709774007	BRA-PZ-68D
709774008	BRA-APBCD-FB-02
709774009	BRA-BRGWC-27I
709774010	BRA-BRGWC-30I
709774011	BRA-BRGWC-32S
709774012	BRA-BRGWC-44
709774013	BRA-BRGWC-45
709774014	BRA-APBCD-EB-05
709774015	BRA-APBCD-FD-02
1206013342	Method Blank (MB)
1206013343	709774002(BRA-BRGWA-23S) Sample Duplicate (DUP)
1206013344	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 709774015 (BRA-APBCD-FD-02) was recounted to verify sample results. Recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2754861

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709774001	BRA-APBCD-FD-01
709774002	BRA-BRGWA-23S
709774003	BRA-BRGWC-25I
709774004	BRA-BRGWC-29I
709774005	BRA-BRGWC-52I
709774006	BRA-PZ-63I
709774007	BRA-PZ-68D
709774008	BRA-APBCD-FB-02
709774009	BRA-BRGWC-27I
709774010	BRA-BRGWC-30I
709774011	BRA-BRGWC-32S
709774012	BRA-BRGWC-44
709774013	BRA-BRGWC-45
709774014	BRA-APBCD-EB-05
709774015	BRA-APBCD-FD-02
1206015319	Method Blank (MB)
1206015320	709774002(BRA-BRGWA-23S) Sample Duplicate (DUP)
1206015321	709774002(BRA-BRGWA-23S) Matrix Spike (MS)
1206015322	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1206015321 (BRA-BRGWA-23SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 709659

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2753850

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709659001	BRA-BRGWC-47
709659002	BRA-PZ-74I
709659003	BRA-PZ-75I
709659004	BRA-APBCD-FB-01
709659005	BRA-APBCD-EB-04

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2753845

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709659001	BRA-BRGWC-47
709659002	BRA-PZ-74I
709659003	BRA-PZ-75I
709659004	BRA-APBCD-FB-01
709659005	BRA-APBCD-EB-04
1206013339	Method Blank (MB)
1206013340	709659001(BRA-BRGWC-47) Sample Duplicate (DUP)
1206013341	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2754859

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709659001	BRA-BRGWC-47
709659002	BRA-PZ-74I
709659003	BRA-PZ-75I
709659004	BRA-APBCD-FB-01
709659005	BRA-APBCD-EB-04
1206015311	Method Blank (MB)
1206015312	708930001(NonSDG) Sample Duplicate (DUP)
1206015313	708930001(NonSDG) Matrix Spike (MS)
1206015314	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Aliquot Reduced
1206015312 (Non SDG 708930001DUP) Aliquot was reduced due to limited sample volume. Limited volume due to only having one bottle of the sample. 1206015312 (Non SDG 708930001DUP).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **709774**

Report Date: April 10, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2753846										
QC1206013343 709774002 DUP										
Radium-228	U	1.86	U	0.652	pCi/L	0		N/A	DH1	03/19/2514:57
	Uncert:	+/-1.56		+/-0.945						
	TPU:	+/-1.63		+/-0.961						
QC1206013344 LCS										
Radium-228	83.1			67.9	pCi/L		81.8	(75%-125%)	DH1	03/19/2514:57
	Uncert:			+/-4.83						
	TPU:			+/-18.6						
QC1206013342 MB										
Radium-228			U	0.519	pCi/L				DH1	03/19/2514:57
	Uncert:			+/-1.39						
	TPU:			+/-1.39						
Rad Ra-226										
Batch 2754861										
QC1206015320 709774002 DUP										
Radium-226		0.556		0.942	pCi/L	51.5		(0% - 100%)	RS2	03/16/2509:20
	Uncert:	+/-0.340		+/-0.580						
	TPU:	+/-0.350		+/-0.614						
QC1206015322 LCS										
Radium-226	27.3			24.5	pCi/L		89.9	(75%-125%)	RS2	03/16/2509:20
	Uncert:			+/-2.29						
	TPU:			+/-4.78						
QC1206015319 MB										
Radium-226			U	0.241	pCi/L				RS2	03/16/2508:48
	Uncert:			+/-0.222						
	TPU:			+/-0.229						
QC1206015321 709774002 MS										
Radium-226	137	0.556		135	pCi/L		97.8	(75%-125%)	RS2	03/16/2509:20
	Uncert:	+/-0.340		+/-11.2						
	TPU:	+/-0.350		+/-26.2						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **709774**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

709658
& 709659

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
gel.com

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: S.Bamsford D.Johnson, T.Gobble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
BRA- BRGWC-47	02/18/25	1654	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- PZ-74I	02/18/25	1638	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- PZ-75I	02/18/25	1442	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- APBCD-FB-01	02/18/25	1720	G	N	WQ	N	N	6	✓	✓	✓	✓	
BRA- APBCD-EB-04	02/18/25	1530	G	N	WQ	N	N	6	✓	✓	✓	✓	
BRA-													
BRA-													
BRA-													
BRA-													
BRA-													

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2025S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		2/19/25	0810		2/19/25	0810
2		2/19/25	1510		2/19/25	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

709660 709658
709661 709659

Client: GPCC	SDG/AR/COC/Work Order:	GEL PM:
Received By: QG	Date Received at GEL: 2/19/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le radiochem only).
Cooler 1	0°C				
2	0°C				
3	0°C				
4	0°C				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HB Date FEB 20 2025

☐ Continuation Form Required when selected

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

709770
709774

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: P. Schmidt, J. Bonsteel, T. Goble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 NI	Radium 226 & 228 SW-846 9315, 9320 NI	<-- Preservative Type (6)
BRA-APBCD-FD-01	02/19/25		G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-BRGWA-23S	02/18/25	1211	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-BRGWC-25I	02/19/25	1202	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-BRGWC-29I	02/19/25	1028	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-BRGWC-52I	02/19/25	1014	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-PZ-63I	02/19/25	1155	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-PZ-68D	02/19/25	0930	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-APBCD-FB-02	02/19/25	1300	G	N	WQ	N	N	6	✓	✓	✓	✓	
BRA-BRGWC-27I	02/19/25	1414	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-BRGWC-30I	02/19/25	1525	G	N	WG	N	N	6	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2025S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	2/20/25	0910	[signature]	2/20/25	910
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* D °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: P. Johnson, S. Bransford, T. Cobble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
BRA- BRGWC-325	02/19/25	1508	G	N	WG	N	N	6	✓	✓	—	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2025S1
BRA- BRGWC-44	02/19/25	1653	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWC-45	02/19/25	1609	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- APBCD-EB-05	02/19/25	1645	G	N	WQ	N	N	6	✓	✓	✓	✓		
BRA- APBCD-FD-02	02/19/25	—	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	2/20/25	0910	1 [signature]	2/20/25	910
2				2		
3				3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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RCRA Metals
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Ba = Barium **Se**= Selenium
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Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

709770 709774

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:	GEL PM: AP
Received By: CLM	Date Received at GEL: 2/20/25	

Courier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR5-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	0°				
2	0°				
3	0°				
4	0°				
5	0°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HB Date FEB 21 2025

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 10 April 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	17 June 2025
To:	Lauren Fitzgerald
From:	Ashley Wilson
CC:	Matthew Richardson
	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – GEL Laboratories, LLC Work Order (WO) 709661**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five groundwater samples collected 18 February 2025, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
709661001	BRA-BRGWA-5I
709661002	BRA-BRGWA-5S
709661003	BRA-BRGWA-2I

Laboratory IDs	Client IDs
709661004	BRA-BRGWA-2S
709661005	BRA-BRGWA-6S

The samples were received at 0 degrees Celsius (^{o}C), outside of the EPA Region 4 criteria of 4^{o}C $\pm$ 2^{o}C. Since the samples were received between 0-6^{o}C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
✓ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.1 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC), for radium-226 and radium-228. Radium-226 was detected greater than the MDC in samples BRA-BRGWA-2S and BRA-BRGWA-5S. Since total radium is calculated from radium-226 and radium-228, and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
BRA-BRGWA-2S	Combined Radium 226 + 228	0.747	U	0.747	NA	RO1
BRA-BRGWA-5S	Combined Radium 226 + 228	1.30	U	1.30	NA	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for the radium-226 and radium-228 data. Radium-226 and radium-228 were not detected in the method blanks at or above the measured 2σ uncertainty or the MDC.

1.4 Matrix Spike/Matrix Spike Duplicate

A batch MS was reported for radium-226. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported for radium-226 and radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Batch laboratory duplicates were reported for radium-226 and radium-228. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses, and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Field blanks were not reported with the sample set.

1.9 Equipment Blank

Equipment blanks were not reported with the sample set.

1.10 Field Duplicate

Field duplicate samples were not reported with the sample set.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

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DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	9 June 2025
To:	Lauren Fitzgerald
From:	Ashley Wilson
CC:	Matthew Richardson
	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders (WOs) 709659, 709774 and 710993**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-five groundwater samples including four equipment blanks, four field blanks and four field duplicate samples collected 18-19 and 26 February 2025, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
709659001	BRA-BRGWC-47
709659002	BRA-PZ-74I
709659003	BRA-PZ-75I
709659004	BRA-APBCD-FB-01
709659005	BRA-APBCD-EB-04
709774001	BRA-APBCD-FD-01
709774002	BRA-BRGWA-23S
709774003	BRA-BRGWC-25I
709774004	BRA-BRGWC-29I
709774005	BRA-BRGWC-52I
709774006	BRA-PZ-63I
709774007	BRA-PZ-68D
709774008	BRA-APBCD-FB-02
709774009	BRA-BRGWC-27I
709774010	BRA-BRGWC-30I
709774011	BRA-BRGWC-32S
709774012	BRA-BRGWC-44
709774013	BRA-BRGWC-45
709774014	BRA-APBCD-EB-05

Laboratory IDs	Client IDs
709774015	BRA-APBCD-FD-02
710993001	BRA-PZ-53D
710993002	BRA-BRGWC-38S
710993003	BRA-APE-FD-04
710993004	BRA-PZ-13S
710993005	BRA-BRGWC-33S
710993006	BRA-APE-FB-07
710993007	BRA-APE-EB-09
710993008	BRA-BRGWC-36S
710993009	BRA-PZ-70I
710993010	BRA-BRGWC-35S
710993011	BRA-APE-FD-05
710993012	BRA-APE-EB-10
710993013	BRA-BRGWC-37S
710993014	BRA-APE-FB-08
710993015	BRA-BRGWC-17S
710993016	BRA-BRGWC-34S
710993017	BRA-PZ-52D

The samples were received at 0 degrees Celsius (°C), outside of the EPA Region 4 criteria of 4°C ± 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
⊗ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
⊗ Field Blank
✓ Equipment Blank
⊗ Field Duplicate
✓ Sensitivity

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.1 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC), for radium-226 and radium-228. Radium-226 was detected greater than the MDC in samples BRA-BRGWC-47, BRA-PZ-68D and BRA-PZ-74I. Since total radium is calculated from radium-226 and radium-228, and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
BRA-BRGWC-47	Combined Radium 226 + 228	2.18	U	2.18	NA	RO1
BRA-PZ-68D	Combined Radium 226 + 228	1.79	U	1.79	NA	RO1|BC1
BRA-PZ-74I	Combined Radium 226 + 228	0.399	U	0.399	NA	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for the radium-226 and radium-228 data. Radium-226 and radium-228 were not detected in the method blanks at or above the measured 2σ uncertainty or the MDC, with the following exceptions.

Radium-226 (0.241 pCi/L) was detected in the method blank in batch 2754861 at a concentration greater than the measured 2σ uncertainty. Therefore, the radium-226 concentrations with a mean difference greater than 2 and a concentration less than ten times the method blank concentration for radium-226 in the associated samples were J qualified as estimated and the radium concentrations with a mean difference less than 2 in the associated sample was UJ qualified as not statistically distinguishable from the blank. In addition, the combined radium 226 + 228 concentrations for samples BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-BRGWC-25I, BRA-BRGWC-32S, BRA-BRGWC-45, BRA-BRGWC-52I and BRA-PZ-68D were J qualified as estimated and the combined radium 226 + 228 concentration for samples BRA-BRGWA-23S, BRA-BRGWC-27I, BRA-BRGWC-29I, BRA-BRGWC-44 and BRA-PZ-63I were UJ qualified as not statistically distinguishable from the blank.

Radium-228 (1.83 pCi/L) was detected in the method blank in batch 2757813 at a concentration greater than the measured 2σ uncertainty. Therefore, the radium-228 concentrations with a mean difference greater than 2 and a concentration less than ten times the method blank concentration for radium-228 in the associated samples were J qualified as estimated and the radium concentrations with a mean difference less than 2 in the associated sample was UJ qualified as not statistically distinguishable from the blank. In addition, the combined radium 226 + 228 concentrations for samples BRA-APE-EB-10, BRA-APE-FB-07, BRA-APE-FD-04, BRA-APE-FD-05, BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-BRGWC-35S, BRA-BRGWC-37S, BRA-PZ-13S and BRA-PZ-52D were J qualified as estimated and the combined radium 226 + 228 concentrations for samples BRA-APE-EB-09, BRA-APE-FB-08, BRA-BRGWC-33S, BRA-BRGWC-36S, BRA-BRGWC-38S, BRA-PZ-53D and BRA-PZ-70I were UJ qualified as not statistically distinguishable from the blank.

Radium-226 (0.237 pCi/L) was detected in the method blank in batch 2758590 at a concentration greater than the measured 2σ uncertainty. Therefore, the radium-226 concentrations with a mean difference greater than 2 and a concentration less than ten times the method blank concentration for radium-226 in the associated samples were J qualified as estimated and the radium concentrations with a mean difference less than 2 in the associated sample was UJ qualified as not statistically distinguishable from the blank. In addition, the combined radium 226 + 228 concentrations for BRA-APE-EB-10, BRA-APE-FD-05, BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-BRGWC-35S, BRA-BRGWC-37S, BRA-PZ-52D and BRA-BRGWC-35S were J qualified as estimated.

Sample ID	Compound	Laboratory Result (pCi /L)	Laboratory Flag	Validation Result (pCi /L)	Validation Qualifier	Reason Code
BRA-APBCD-FD-01	Radium-226	1.44	NA	1.44	J	BC1
BRA-APBCD-FD-01	Combined Radium 226 + 228	5.23	NA	5.23	J	BC1
BRA-APBCD-FD-02	Radium-226	1.93	NA	1.93	J	BC1
BRA-APBCD-FD-02	Combined Radium 226 + 228	2.38	NA	2.38	J	BC1
BRA-BRGWA-23S	Combined Radium 226 + 228	2.42	U	2.42	UJ	BC1
BRA-BRGWA-23S	Radium-226	0.556	NA	0.556	UJ	BC1
BRA-BRGWC-25I	Radium-226	1.40	NA	1.40	J	BC1
BRA-BRGWC-25I	Combined Radium 226 + 228	2.94	NA	2.94	J	BC1
BRA-BRGWC-27I	Combined Radium 226 + 228	1.44	U	1.44	UJ	BC1
BRA-BRGWC-27I	Radium-226	0.757	NA	0.757	UJ	BC1
BRA-BRGWC-29I	Radium-226	0.708	NA	0.708	UJ	BC1
BRA-BRGWC-29I	Combined Radium 226 + 228	2.67	NA	2.67	UJ	BC1
BRA-BRGWC-32S	Radium-226	1.07	NA	1.07	J	BC1
BRA-BRGWC-32S	Combined Radium 226 + 228	2.61	NA	2.61	J	BC1
BRA-BRGWC-44	Combined Radium 226 + 228	0.947	U	0.947	UJ	BC1
BRA-BRGWC-44	Radium-226	0.451	NA	0.451	UJ	BC1
BRA-BRGWC-45	Radium-226	0.626	NA	0.626	UJ	BC1

Sample ID	Compound	Laboratory Result (pCi /L)	Laboratory Flag	Validation Result (pCi /L)	Validation Qualifier	Reason Code
BRA-BRGWC-45	Combined Radium 226 + 228	2.94	NA	2.94	J	BC1
BRA-BRGWC-52I	Radium-226	2.40	NA	2.40	J	BC1
BRA-BRGWC-52I	Combined Radium 226 + 228	4.91	NA	4.91	J	BC1
BRA-PZ-63I	Radium-226	0.576	NA	0.576	UJ	BC1
BRA-PZ-63I	Combined Radium 226 + 228	1.73	NA	1.73	J	BC1
BRA-PZ-68D	Radium-226	0.774	NA	0.774	J	BC1
BRA-PZ-68D	Combined Radium 226 + 228	1.79	U	1.79	J	BC1
BRA-APE-EB-09	Radium-228	2.26	NA	2.26	UJ	BC1
BRA-APE-EB-09	Combined Radium 226 + 228	2.34	NA	2.34	UJ	BC1
BRA-APE-EB-10	Radium-226	1.22	NA	1.22	J	BC1
BRA-APE-EB-10	Radium-228	2.70	NA	2.70	UJ	BC1
BRA-APE-EB-10	Combined Radium 226 + 228	3.92	NA	3.92	J	BC1
BRA-APE-FB-07	Radium-228	4.37	NA	4.37	J	BC1
BRA-APE-FB-07	Combined Radium 226 + 228	4.51	NA	4.51	J	BC1
BRA-APE-FB-08	Radium-228	2.62	NA	2.62	UJ	BC1
BRA-APE-FB-08	Combined Radium 226 + 228	2.84	NA	2.84	UJ	BC1
BRA-APE-FD-04	Radium-228	2.48	NA	2.48	UJ	BC1
BRA-APE-FD-04	Combined Radium 226 + 228	3.70	NA	3.70	J	BC1
BRA-APE-FD-05	Radium-226	3.29	NA	3.29	J	BC1
BRA-APE-FD-05	Radium-228	3.02	NA	3.02	UJ	BC1
BRA-APE-FD-05	Combined Radium 226 + 228	6.31	NA	6.31	J	BC1
BRA-BRGWC-17S	Radium-226	3.22	NA	3.22	J	BC1
BRA-BRGWC-17S	Radium-228	2.45	NA	2.45	UJ	BC1
BRA-BRGWC-17S	Combined Radium 226 + 228	5.67	NA	5.67	J	BC1

Sample ID	Compound	Laboratory Result (pCi /L)	Laboratory Flag	Validation Result (pCi /L)	Validation Qualifier	Reason Code
BRA-BRGWC-33S	Radium-228	3.70	NA	3.70	UJ	BC1
BRA-BRGWC-33S	Combined Radium 226 + 228	4.05	NA	4.05	UJ	BC1
BRA-BRGWC-34S	Radium-226	1.93	NA	1.93	J	BC1
BRA-BRGWC-34S	Radium-228	3.02	NA	3.02	UJ	BC1
BRA-BRGWC-34S	Combined Radium 226 + 228	4.95	NA	4.95	J	BC1
BRA-BRGWC-35S	Radium-226	2.64	NA	2.64	J	BC1
BRA-BRGWC-35S	Combined Radium 226 + 228	3.29	NA	3.29	J	BC1
BRA-BRGWC-36S	Radium-228	4.03	NA	4.03	UJ	BC1
BRA-BRGWC-36S	Combined Radium 226 + 228	4.50	NA	4.50	UJ	BC1
BRA-BRGWC-37S	Radium-226	0.979	NA	0.979	J	BC1
BRA-BRGWC-37S	Radium-228	4.39	NA	4.39	J	BC1
BRA-BRGWC-37S	Combined Radium 226 + 228	5.37	NA	5.37	J	BC1
BRA-BRGWC-38S	Radium-228	3.13	NA	3.13	UJ	BC1
BRA-BRGWC-38S	Combined Radium 226 + 228	3.64	NA	3.64	UJ	BC1
BRA-PZ-13S	Radium-228	2.50	NA	2.50	UJ	BC1
BRA-PZ-13S	Combined Radium 226 + 228	3.29	NA	3.29	J	BC1
BRA-PZ-52D	Radium-226	1.03	NA	1.03	J	BC1
BRA-PZ-52D	Radium-228	2.79	NA	2.79	UJ	BC1
BRA-PZ-52D	Combined Radium 226 + 228	3.82	NA	3.82	J	BC1
BRA-PZ-53D	Radium-228	3.96	NA	3.96	UJ	BC1
BRA-PZ-53D	Combined Radium 226 + 228	4.25	NA	4.25	UJ	BC1
BRA-PZ-70I	Radium-228	1.87	NA	1.87	UJ	BC1
BRA-PZ-70I	Combined Radium 226 + 228	2.41	NA	2.41	UJ	BC1

pCi/L-picocuries per liter
NA-not applicable

1.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS was reported using sample BRA-BRGWC-35S. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCS/LCS duplicate (LCSD) pairs were reported for radium-226 and radium-228. The recovery and replicate error ratio (RER) [2 sigma (2σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported using samples BRA-BRGWC-35S and BRA-PZ-53D. The RPD results were within the laboratory specified acceptance criteria, with the following exception.

The RPD of the laboratory duplicate using sample BRA-BRGWC-35S was high and outside of laboratory specified acceptance criteria. Since the MD was less than 3, no qualifications were applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses, and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Four field blanks BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set and analyzed for radium-226 and radium-228. Radium-226 and radium-228 were not detected in the field blanks at or above the measured 2σ uncertainty or the MDC, with the following exceptions.

Radium -228 (4.37 pCi/L) was detected in BRA-APE-FB-07 at a concentration greater than the MDC. Since the radium-228 results for BRA-APE-FB-07 were previously qualified due to method blank contamination, no further qualifications were applied to the data.

Radium-228 (2.62 pCi/L) was detected in the BRA-APE-FB-08 at a concentration greater than the MDC. Since the radium-228 results for BRA-APE-FB-08 were previously qualified due to method blank contamination, no further qualifications were applied to the data.

Radium-228 (2.32 pCi/L) was detected in the BRA-APBCD-FB-01 at a concentration greater than the MDC. Therefore, the radium-228 concentration with a mean difference less than 2 for radium-228 in the associated sample, BRA-APBCD-EB-04, was UJ qualified as estimated. In addition, the combined radium 226 + 228 concentrations for BRA-APBCD-EB-04 was UJ qualified as not statistically distinguishable from the blank.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-APBCD-EB-04	Radium-228	1.78	NA	1.78	UJ	BFH
BRA-APBCD-EB-04	Combined Radium 226 + 228	1.81	NA	1.81	UJ	BFH

pCi/L-picocuries per liter
NA-not applicable

1.9 Equipment Blank

Four field blanks BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set and analyzed for radium-226 and radium-228. Radium-226 and Radium-228 were not detected in the equipment blanks at or above the measured 2σ uncertainty or the MDC, with the following exceptions.

Radium-228 (1.78 pCi/L) was detected in equipment blank, BRA-APBCD-EB-04, at a concentration greater than the MDC. Since the radium-228 result for BRA-APBCD-EB-04 was previously qualified due to field blank contamination, no further qualifications were applied to the data.

Radium-228 (2.26 pCi/L) was detected in equipment blank, BRA-APE-EB-09, at a concentration greater than the MDC. Since the radium-228 result for BRA-APE-EB-09 was previously qualified due to method blank contamination, no further qualifications were applied to the data.

Radium-226 (1.22 pCi/L) and radium-228 (2.70 pCi/L) were detected in BRA-APE-EB-10 at concentrations greater than the MDCs. Since the radium-226 and radium-228 results for BRA-APE-EB-10 were previously qualified due to method blank contamination, no further qualifications were applied to the data.

1.10 Field Duplicate

Four duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APE-FD-04 and BRA-APE-FD-05, were collected with the sample set. Acceptable precision [mean difference (MD) ≤ 3, RPD < 20% or difference < RL] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-29I, BRA-BRGWC-44, BRA-PZ-13S and BRA-BRGWC-34S, respectively, with the following exception.

The mean difference for radium-226 was greater than 3 in the field duplicate pair using field duplicate, BRA-APBCD-FD-02, and parent sample, BRA-BRGWC-44. Therefore, the concentrations of radium-226 in the field duplicate pair were J qualified as estimated. Since they were previously qualified due to method blank contamination, the radium-226 concentration in BRA-APBCD-FD-02 remained J qualified and the radium-226 concentration in BRA-BRGWC-44 remained UJ qualified.

Sample	Analyte	Laboratory Result (pCi /L)	Laboratory Flag	Mean Difference	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-APBCD-FD-02	Radium-226	1.93	NA	3.989	1.93	J	BC1|FD1
BRA-BRGWC-44	Radium-226	0.451	NA		0.451	UJ	BC1|FD1

pCi/L-picocuries per liter
NA-not applicable

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

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DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

Low-Flow Test Report:

Test Date / Time: 2/18/2025 9:35:09 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-2I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56.94 ft** **Total Depth: 66.94 ft** **Initial Depth to Water: 11.71 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61 ft** **Estimated Total Volume Pumped: 13.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 44 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1030, fe2+=0.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/18/2025 9:35 AM	00:00	7.31 pH	9.16 °C	126.17 µS/cm	4.41 mg/L	14.00 NTU	166.6 mV	11.71 ft	250.00 ml/min
2/18/2025 9:40 AM	05:00	6.69 pH	13.21 °C	130.52 µS/cm	0.90 mg/L	4.92 NTU	63.9 mV	13.00 ft	250.00 ml/min
2/18/2025 9:45 AM	10:00	6.60 pH	13.63 °C	132.78 µS/cm	0.99 mg/L	1.51 NTU	60.7 mV	13.80 ft	250.00 ml/min
2/18/2025 9:50 AM	15:00	6.59 pH	13.83 °C	133.00 µS/cm	1.00 mg/L	1.59 NTU	63.8 mV	14.50 ft	250.00 ml/min
2/18/2025 9:55 AM	20:00	6.60 pH	13.89 °C	134.93 µS/cm	0.73 mg/L	1.63 NTU	63.4 mV	15.20 ft	250.00 ml/min
2/18/2025 10:00 AM	25:00	6.64 pH	14.22 °C	143.05 µS/cm	0.53 mg/L	1.44 NTU	60.3 mV	15.40 ft	250.00 ml/min
2/18/2025 10:05 AM	30:00	6.63 pH	14.03 °C	139.06 µS/cm	0.77 mg/L	1.11 NTU	57.7 mV	15.40 ft	250.00 ml/min
2/18/2025 10:10 AM	35:00	6.57 pH	13.94 °C	132.58 µS/cm	1.02 mg/L	1.25 NTU	57.1 mV	15.40 ft	250.00 ml/min
2/18/2025 10:15 AM	40:00	6.50 pH	14.07 °C	126.50 µS/cm	1.17 mg/L	1.17 NTU	56.9 mV	15.40 ft	250.00 ml/min
2/18/2025 10:20 AM	45:00	6.46 pH	13.94 °C	122.50 µS/cm	1.33 mg/L	1.06 NTU	61.2 mV	15.40 ft	250.00 ml/min
2/18/2025 10:25 AM	50:00	6.44 pH	14.15 °C	121.35 µS/cm	1.41 mg/L	0.94 NTU	57.6 mV	15.40 ft	250.00 ml/min
2/18/2025 10:30 AM	55:00	6.42 pH	14.18 °C	119.91 µS/cm	1.47 mg/L	0.99 NTU	57.6 mV	15.40 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/18/2025 10:55:28 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-2S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.4 ft** **Total Depth: 47.4 ft** **Initial Depth to Water: 11.8 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 6.7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time -1125, fe2+=0.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/18/2025 10:55 AM	00:00	6.65 pH	13.46 °C	80.93 µS/cm	5.14 mg/L	1.69 NTU	58.8 mV	11.80 ft	225.00 ml/min
2/18/2025 11:00 AM	05:00	5.92 pH	14.12 °C	69.94 µS/cm	1.43 mg/L	2.05 NTU	62.5 mV	12.00 ft	225.00 ml/min
2/18/2025 11:05 AM	10:00	5.91 pH	14.27 °C	70.49 µS/cm	0.70 mg/L	1.70 NTU	71.4 mV	12.00 ft	225.00 ml/min
2/18/2025 11:10 AM	15:00	5.88 pH	14.42 °C	69.16 µS/cm	0.66 mg/L	1.04 NTU	64.4 mV	12.00 ft	225.00 ml/min
2/18/2025 11:15 AM	20:00	5.87 pH	14.31 °C	68.94 µS/cm	0.69 mg/L	0.77 NTU	72.0 mV	12.00 ft	225.00 ml/min
2/18/2025 11:20 AM	25:00	5.89 pH	14.45 °C	68.19 µS/cm	0.71 mg/L	0.75 NTU	63.4 mV	12.00 ft	225.00 ml/min
2/18/2025 11:25 AM	30:00	5.88 pH	14.52 °C	68.11 µS/cm	0.73 mg/L	0.82 NTU	63.7 mV	12.00 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/18/2025 9:32:10 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWA-5I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53 ft** **Total Depth: 63.89 ft** **Initial Depth to Water: 14.11 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3.72 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1002. Sunny, 43 degrees F.
Fe2+= 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/18/2025 9:32 AM	00:00	6.59 pH	9.70 °C	147.45 µS/cm	9.78 mg/L	1.57 NTU	95.9 mV	14.11 ft	250.00 ml/min
2/18/2025 9:37 AM	05:00	6.30 pH	15.83 °C	147.57 µS/cm	3.61 mg/L	1.20 NTU	61.6 mV	14.30 ft	250.00 ml/min
2/18/2025 9:42 AM	10:00	6.16 pH	16.29 °C	149.92 µS/cm	2.84 mg/L	0.40 NTU	57.0 mV	14.41 ft	250.00 ml/min
2/18/2025 9:47 AM	15:00	6.20 pH	16.37 °C	145.86 µS/cm	3.19 mg/L	0.67 NTU	53.6 mV	14.42 ft	250.00 ml/min
2/18/2025 9:52 AM	20:00	6.18 pH	16.54 °C	143.70 µS/cm	3.62 mg/L	0.72 NTU	53.2 mV	14.42 ft	250.00 ml/min
2/18/2025 9:57 AM	25:00	6.17 pH	16.44 °C	142.21 µS/cm	3.87 mg/L	0.99 NTU	53.1 mV	14.42 ft	250.00 ml/min
2/18/2025 10:02 AM	30:00	6.17 pH	16.59 °C	141.74 µS/cm	3.77 mg/L	0.66 NTU	53.8 mV	14.42 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/18/2025 9:34:04 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWA-5S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.1 ft** **Total Depth: 43.1 ft** **Initial Depth to Water: 14.25 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 280 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sampled at 0959. Clear 38 degrees. Fe2+: 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/18/2025 9:34 AM	00:00	7.73 pH	10.45 °C	170.32 µS/cm	10.17 mg/L	0.38 NTU	171.7 mV	14.25 ft	280.00 ml/min
2/18/2025 9:39 AM	05:00	6.44 pH	15.66 °C	146.96 µS/cm	5.11 mg/L	1.34 NTU	106.0 mV	14.45 ft	280.00 ml/min
2/18/2025 9:44 AM	10:00	6.45 pH	15.77 °C	147.17 µS/cm	5.05 mg/L	1.78 NTU	83.5 mV	14.54 ft	280.00 ml/min
2/18/2025 9:49 AM	15:00	6.42 pH	16.94 °C	144.27 µS/cm	4.03 mg/L	1.66 NTU	106.4 mV	14.54 ft	280.00 ml/min
2/18/2025 9:54 AM	20:00	6.42 pH	17.06 °C	146.36 µS/cm	3.92 mg/L	1.84 NTU	74.8 mV	14.54 ft	280.00 ml/min
2/18/2025 9:59 AM	25:00	6.42 pH	17.10 °C	146.04 µS/cm	3.87 mg/L	1.75 NTU	72.7 mV	14.54 ft	280.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/18/2025 12:35:26 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-6S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.9 ft** **Total Depth: 52.9 ft** **Initial Depth to Water: 28.83 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 6.7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 8 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time -1305, fe2+=0.0 mg/ L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/18/2025 12:35 PM	00:00	6.48 pH	17.92 °C	48.04 µS/cm	8.81 mg/L	0.59 NTU	76.9 mV	28.83 ft	225.00 ml/min
2/18/2025 12:40 PM	05:00	6.40 pH	15.90 °C	50.83 µS/cm	7.33 mg/L	0.84 NTU	72.9 mV	29.00 ft	225.00 ml/min
2/18/2025 12:45 PM	10:00	6.38 pH	15.66 °C	50.88 µS/cm	7.17 mg/L	1.99 NTU	71.7 mV	29.40 ft	225.00 ml/min
2/18/2025 12:50 PM	15:00	6.38 pH	15.52 °C	50.83 µS/cm	7.15 mg/L	1.64 NTU	70.9 mV	29.50 ft	225.00 ml/min
2/18/2025 12:55 PM	20:00	6.38 pH	15.67 °C	50.81 µS/cm	7.19 mg/L	1.52 NTU	69.4 mV	29.50 ft	225.00 ml/min
2/18/2025 1:00 PM	25:00	6.38 pH	15.38 °C	50.99 µS/cm	7.24 mg/L	1.30 NTU	79.5 mV	29.50 ft	225.00 ml/min
2/18/2025 1:05 PM	30:00	6.38 pH	15.38 °C	51.14 µS/cm	7.25 mg/L	0.98 NTU	80.6 mV	29.50 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/18/2025 11:26:30 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWA-23S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.5 ft** **Total Depth: 43.5 ft** **Initial Depth to Water: 42.15 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1211. Sunny, 51 degrees F. Fe2+= 0.0.

WL below top of pump. Pulled pump on 2/17/25 to collect water level measurement. 1.35 feet of water available for purge. Did not pull pump today to not increase turbidity.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/18/2025 11:26 AM	00:00	6.52 pH	18.47 °C	71.87 µS/cm	8.35 mg/L	3.33 NTU	69.9 mV	42.15 ft	100.00 ml/min
2/18/2025 11:31 AM	05:00	6.29 pH	16.62 °C	76.21 µS/cm	8.99 mg/L	4.08 NTU	65.7 mV	42.15 ft	100.00 ml/min
2/18/2025 11:36 AM	10:00	6.01 pH	16.37 °C	77.90 µS/cm	9.36 mg/L	4.74 NTU	67.7 mV	42.15 ft	100.00 ml/min
2/18/2025 11:41 AM	15:00	5.85 pH	16.88 °C	88.75 µS/cm	8.20 mg/L	3.90 NTU	53.7 mV	42.15 ft	100.00 ml/min
2/18/2025 11:46 AM	20:00	5.76 pH	17.59 °C	95.76 µS/cm	6.42 mg/L	3.02 NTU	65.6 mV	42.15 ft	100.00 ml/min
2/18/2025 11:51 AM	25:00	5.74 pH	17.80 °C	96.04 µS/cm	5.35 mg/L	3.00 NTU	50.6 mV	42.15 ft	100.00 ml/min
2/18/2025 11:56 AM	30:00	5.66 pH	18.12 °C	96.55 µS/cm	6.45 mg/L	3.12 NTU	67.7 mV	42.15 ft	100.00 ml/min
2/18/2025 12:01 PM	35:00	5.71 pH	18.48 °C	97.31 µS/cm	7.75 mg/L	4.03 NTU	69.1 mV	42.15 ft	100.00 ml/min
2/18/2025 12:06 PM	40:00	5.77 pH	18.58 °C	95.57 µS/cm	8.00 mg/L	3.73 NTU	54.0 mV	42.15 ft	100.00 ml/min
2/18/2025 12:11 PM	45:00	5.80 pH	18.51 °C	95.89 µS/cm	8.22 mg/L	3.62 NTU	52.4 mV	42.15 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/19/2025 11:32:22 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-25I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.9 ft** **Total Depth: 22.9 ft** **Initial Depth to Water: 12.25 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 17 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 2.28 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1202. Rain, 46 degrees F. Ferrous iron 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/19/2025 11:32 AM	00:00	7.85 pH	12.36 °C	610.88 µS/cm	9.10 mg/L	37.00 NTU	60.3 mV	12.25 ft	300.00 ml/min
2/19/2025 11:37 AM	05:00	6.64 pH	16.09 °C	564.24 µS/cm	0.80 mg/L	33.00 NTU	148.3 mV	12.37 ft	300.00 ml/min
2/19/2025 11:42 AM	10:00	6.32 pH	15.80 °C	566.81 µS/cm	0.49 mg/L	11.40 NTU	138.1 mV	12.42 ft	300.00 ml/min
2/19/2025 11:47 AM	15:00	6.21 pH	15.76 °C	567.89 µS/cm	0.44 mg/L	4.89 NTU	129.4 mV	12.43 ft	300.00 ml/min
2/19/2025 11:52 AM	20:00	6.16 pH	15.90 °C	568.25 µS/cm	0.42 mg/L	3.50 NTU	122.3 mV	12.44 ft	300.00 ml/min
2/19/2025 11:57 AM	25:00	6.14 pH	16.02 °C	567.46 µS/cm	0.36 mg/L	2.73 NTU	112.6 mV	12.44 ft	300.00 ml/min
2/19/2025 12:02 PM	30:00	6.13 pH	15.98 °C	569.11 µS/cm	0.32 mg/L	2.21 NTU	105.9 mV	12.44 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/19/2025 1:19:30 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-27I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.8 ft** **Total Depth: 26.86 ft** **Initial Depth to Water: 12.72 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 21 ft** **Estimated Total Volume Pumped: 11 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1414. Rain, 45 degrees F.
Fe2+= 0.0

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/19/2025 1:19 PM	00:00	5.80 pH	10.24 °C	304.48 µS/cm	3.23 mg/L	0.18 NTU	119.8 mV	12.72 ft	200.00 ml/min
2/19/2025 1:24 PM	05:00	5.39 pH	15.28 °C	305.48 µS/cm	0.92 mg/L	0.21 NTU	135.1 mV	12.84 ft	200.00 ml/min
2/19/2025 1:29 PM	10:00	5.36 pH	15.56 °C	304.98 µS/cm	0.70 mg/L	0.24 NTU	142.2 mV	12.87 ft	200.00 ml/min
2/19/2025 1:34 PM	15:00	5.36 pH	15.52 °C	310.10 µS/cm	0.63 mg/L	0.18 NTU	152.0 mV	12.89 ft	200.00 ml/min
2/19/2025 1:39 PM	20:00	5.37 pH	15.80 °C	314.02 µS/cm	0.60 mg/L	0.23 NTU	165.4 mV	12.90 ft	200.00 ml/min
2/19/2025 1:44 PM	25:00	5.37 pH	15.94 °C	318.23 µS/cm	0.58 mg/L	0.19 NTU	177.1 mV	12.91 ft	200.00 ml/min
2/19/2025 1:49 PM	30:00	5.38 pH	15.88 °C	318.66 µS/cm	0.56 mg/L	0.18 NTU	185.5 mV	12.92 ft	200.00 ml/min
2/19/2025 1:54 PM	35:00	5.39 pH	15.49 °C	323.24 µS/cm	0.56 mg/L	0.21 NTU	185.9 mV	12.92 ft	200.00 ml/min
2/19/2025 1:59 PM	40:00	5.41 pH	15.76 °C	330.38 µS/cm	0.57 mg/L	0.22 NTU	239.1 mV	12.92 ft	200.00 ml/min
2/19/2025 2:04 PM	45:00	5.42 pH	15.76 °C	333.28 µS/cm	0.54 mg/L	0.20 NTU	194.9 mV	12.92 ft	200.00 ml/min
2/19/2025 2:09 PM	50:00	5.43 pH	15.80 °C	334.36 µS/cm	0.51 mg/L	0.19 NTU	190.4 mV	12.92 ft	200.00 ml/min
2/19/2025 2:14 PM	55:00	5.44 pH	15.57 °C	336.72 µS/cm	0.51 mg/L	0.20 NTU	189.1 mV	12.92 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/19/2025 9:28:25 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-29I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.6 ft** **Total Depth: 22.63 ft** **Initial Depth to Water: 10.89 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 17 ft** **Estimated Total Volume Pumped: 18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 2.04 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1028. Rain, 46 degrees F.
FD-01 here. Ferrous iron 2.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/19/2025 9:28 AM	00:00	3.42 pH	15.24 °C	658.05 µS/cm	3.02 mg/L	1.24 NTU	213.7 mV	10.89 ft	300.00 ml/min
2/19/2025 9:33 AM	05:00	3.80 pH	16.60 °C	637.61 µS/cm	0.30 mg/L	0.39 NTU	260.7 mV	10.96 ft	300.00 ml/min
2/19/2025 9:38 AM	10:00	3.75 pH	16.43 °C	641.82 µS/cm	0.23 mg/L	0.42 NTU	230.4 mV	11.02 ft	300.00 ml/min
2/19/2025 9:43 AM	15:00	3.79 pH	16.61 °C	643.09 µS/cm	0.21 mg/L	0.37 NTU	226.9 mV	11.06 ft	300.00 ml/min
2/19/2025 9:48 AM	20:00	3.82 pH	16.59 °C	643.01 µS/cm	0.18 mg/L	0.75 NTU	230.3 mV	11.06 ft	300.00 ml/min
2/19/2025 9:53 AM	25:00	3.84 pH	16.74 °C	645.87 µS/cm	0.16 mg/L	0.64 NTU	235.2 mV	11.06 ft	300.00 ml/min
2/19/2025 9:58 AM	30:00	3.85 pH	16.70 °C	646.94 µS/cm	0.15 mg/L	0.63 NTU	236.3 mV	11.06 ft	300.00 ml/min
2/19/2025 10:03 AM	35:00	3.86 pH	16.94 °C	649.30 µS/cm	0.13 mg/L	0.61 NTU	233.6 mV	11.06 ft	300.00 ml/min
2/19/2025 10:08 AM	40:00	3.87 pH	17.10 °C	651.54 µS/cm	0.12 mg/L	0.59 NTU	231.6 mV	11.06 ft	300.00 ml/min
2/19/2025 10:13 AM	45:00	3.88 pH	17.10 °C	650.07 µS/cm	0.11 mg/L	0.62 NTU	231.2 mV	11.06 ft	300.00 ml/min
2/19/2025 10:18 AM	50:00	3.89 pH	17.11 °C	653.53 µS/cm	0.11 mg/L	0.75 NTU	231.5 mV	11.06 ft	300.00 ml/min
2/19/2025 10:23 AM	55:00	3.90 pH	16.70 °C	654.82 µS/cm	0.11 mg/L	0.70 NTU	234.0 mV	11.06 ft	300.00 ml/min
2/19/2025 10:28 AM	01:00:00	3.91 pH	14.72 °C	650.93 µS/cm	0.38 mg/L	0.69 NTU	230.2 mV	11.06 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/19/2025 10:15:08 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-30I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.8 ft** **Total Depth: 22.86 ft** **Initial Depth to Water: 5.2 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 17 ft** **Estimated Total Volume Pumped: 121.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 400 ml/min** **Final Draw Down: 6 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Cloudy, sample time 1525, fe2+=0.5 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/19/2025 10:15 AM	00:00	7.29 pH	8.43 °C	1,703.0 µS/cm	11.38 mg/L	232.00 NTU	52.3 mV	5.20 ft	325.00 ml/min
2/19/2025 10:20 AM	05:00	6.40 pH	12.25 °C	1,659.7 µS/cm	0.79 mg/L	1,000.00 NTU	61.4 mV	5.60 ft	325.00 ml/min
2/19/2025 10:25 AM	10:00	6.36 pH	13.23 °C	1,730.7 µS/cm	0.39 mg/L	386.00 NTU	59.3 mV	5.60 ft	325.00 ml/min
2/19/2025 10:30 AM	15:00	6.36 pH	13.26 °C	1,745.6 µS/cm	0.37 mg/L	187.00 NTU	60.1 mV	5.60 ft	325.00 ml/min
2/19/2025 10:35 AM	20:00	6.35 pH	13.83 °C	1,740.9 µS/cm	0.30 mg/L	130.00 NTU	61.2 mV	5.60 ft	325.00 ml/min
2/19/2025 10:40 AM	25:00	6.35 pH	13.92 °C	1,743.4 µS/cm	0.28 mg/L	115.00 NTU	61.2 mV	5.60 ft	325.00 ml/min
2/19/2025 10:45 AM	30:00	6.35 pH	13.99 °C	1,738.7 µS/cm	0.27 mg/L	79.00 NTU	61.5 mV	5.70 ft	400.00 ml/min
2/19/2025 10:50 AM	35:00	6.34 pH	14.28 °C	1,744.5 µS/cm	0.23 mg/L	73.00 NTU	61.7 mV	5.70 ft	400.00 ml/min
2/19/2025 10:55 AM	40:00	6.34 pH	14.34 °C	1,749.6 µS/cm	0.22 mg/L	48.00 NTU	62.0 mV	5.70 ft	400.00 ml/min
2/19/2025 11:00 AM	45:00	6.34 pH	14.41 °C	1,748.7 µS/cm	0.20 mg/L	37.00 NTU	61.8 mV	5.70 ft	400.00 ml/min
2/19/2025 11:05 AM	50:00	6.34 pH	14.33 °C	1,748.4 µS/cm	0.20 mg/L	32.00 NTU	61.2 mV	5.70 ft	400.00 ml/min
2/19/2025 11:10 AM	55:00	6.35 pH	14.34 °C	1,748.7 µS/cm	0.19 mg/L	30.00 NTU	61.4 mV	5.70 ft	400.00 ml/min
2/19/2025 11:15 AM	01:00:00	6.34 pH	14.48 °C	1,748.1 µS/cm	0.17 mg/L	29.00 NTU	61.8 mV	5.70 ft	400.00 ml/min
2/19/2025 11:20 AM	01:05:00	6.34 pH	14.52 °C	1,748.9 µS/cm	0.17 mg/L	42.00 NTU	61.3 mV	5.70 ft	400.00 ml/min

2/19/2025 11:25 AM	01:10:00	6.35 pH	14.12 °C	1,774.8 µS/cm	0.22 mg/L	30.00 NTU	73.6 mV	5.70 ft	400.00 ml/min
2/19/2025 11:30 AM	01:15:00	6.35 pH	14.71 °C	1,745.5 µS/cm	0.18 mg/L	33.00 NTU	63.2 mV	5.70 ft	400.00 ml/min
2/19/2025 11:35 AM	01:20:00	6.34 pH	14.64 °C	1,756.4 µS/cm	0.17 mg/L	29.00 NTU	61.5 mV	5.70 ft	400.00 ml/min
2/19/2025 11:40 AM	01:25:00	6.34 pH	14.69 °C	1,742.9 µS/cm	0.17 mg/L	25.00 NTU	61.3 mV	5.70 ft	400.00 ml/min
2/19/2025 11:45 AM	01:30:00	6.34 pH	14.48 °C	1,761.9 µS/cm	0.16 mg/L	23.00 NTU	70.6 mV	5.70 ft	400.00 ml/min
2/19/2025 11:50 AM	01:35:00	6.35 pH	14.57 °C	1,758.8 µS/cm	0.16 mg/L	33.00 NTU	60.8 mV	5.70 ft	400.00 ml/min
2/19/2025 11:55 AM	01:40:00	6.35 pH	14.59 °C	1,756.5 µS/cm	0.16 mg/L	38.00 NTU	60.5 mV	5.70 ft	400.00 ml/min
2/19/2025 12:00 PM	01:45:00	6.36 pH	14.46 °C	1,751.1 µS/cm	0.16 mg/L	25.00 NTU	60.0 mV	5.70 ft	400.00 ml/min
2/19/2025 12:05 PM	01:50:00	6.35 pH	14.66 °C	1,752.1 µS/cm	0.15 mg/L	23.00 NTU	59.3 mV	5.70 ft	400.00 ml/min
2/19/2025 12:10 PM	01:55:00	6.35 pH	14.72 °C	1,760.6 µS/cm	0.15 mg/L	21.00 NTU	59.4 mV	5.70 ft	400.00 ml/min
2/19/2025 12:15 PM	02:00:00	6.35 pH	14.70 °C	1,760.4 µS/cm	0.15 mg/L	19.00 NTU	59.5 mV	5.70 ft	400.00 ml/min
2/19/2025 12:20 PM	02:05:00	6.35 pH	14.72 °C	1,755.0 µS/cm	0.16 mg/L	18.00 NTU	59.3 mV	5.70 ft	400.00 ml/min
2/19/2025 12:25 PM	02:10:00	6.35 pH	14.70 °C	1,758.6 µS/cm	0.15 mg/L	25.00 NTU	59.3 mV	5.70 ft	400.00 ml/min
2/19/2025 12:30 PM	02:15:00	6.35 pH	14.82 °C	1,761.0 µS/cm	0.15 mg/L	30.00 NTU	59.3 mV	5.70 ft	400.00 ml/min
2/19/2025 12:35 PM	02:20:00	6.35 pH	14.66 °C	1,763.2 µS/cm	0.16 mg/L	25.00 NTU	68.9 mV	5.70 ft	400.00 ml/min
2/19/2025 12:40 PM	02:25:00	6.35 pH	14.73 °C	1,760.5 µS/cm	0.16 mg/L	22.00 NTU	60.6 mV	5.70 ft	400.00 ml/min
2/19/2025 12:45 PM	02:30:00	6.37 pH	13.89 °C	1,741.4 µS/cm	0.16 mg/L	19.00 NTU	60.2 mV	5.70 ft	400.00 ml/min
2/19/2025 12:50 PM	02:35:00	6.39 pH	12.96 °C	1,739.1 µS/cm	0.22 mg/L	22.00 NTU	58.8 mV	5.70 ft	400.00 ml/min
2/19/2025 12:55 PM	02:40:00	6.38 pH	13.86 °C	1,723.1 µS/cm	0.34 mg/L	20.00 NTU	56.6 mV	5.70 ft	400.00 ml/min
2/19/2025 1:00 PM	02:45:00	6.36 pH	14.68 °C	1,767.2 µS/cm	0.17 mg/L	25.00 NTU	58.0 mV	5.70 ft	400.00 ml/min
2/19/2025 1:05 PM	02:50:00	6.36 pH	14.66 °C	1,744.3 µS/cm	0.19 mg/L	24.00 NTU	58.4 mV	5.70 ft	400.00 ml/min
2/19/2025 1:10 PM	02:55:00	6.35 pH	14.66 °C	1,762.4 µS/cm	0.15 mg/L	22.00 NTU	69.1 mV	5.70 ft	400.00 ml/min
2/19/2025 1:15 PM	03:00:00	6.35 pH	14.80 °C	1,755.5 µS/cm	0.15 mg/L	19.00 NTU	60.9 mV	5.70 ft	400.00 ml/min
2/19/2025 1:20 PM	03:05:00	6.35 pH	14.69 °C	1,764.4 µS/cm	0.15 mg/L	22.00 NTU	60.1 mV	5.70 ft	400.00 ml/min
2/19/2025 1:25 PM	03:10:00	6.36 pH	14.83 °C	1,759.0 µS/cm	0.15 mg/L	29.00 NTU	60.0 mV	5.70 ft	400.00 ml/min
2/19/2025 1:30 PM	03:15:00	6.36 pH	14.33 °C	1,754.5 µS/cm	0.17 mg/L	25.00 NTU	60.3 mV	5.70 ft	400.00 ml/min
2/19/2025 1:35 PM	03:20:00	6.36 pH	14.23 °C	1,752.0 µS/cm	0.19 mg/L	16.00 NTU	59.4 mV	5.70 ft	400.00 ml/min
2/19/2025 1:40 PM	03:25:00	6.36 pH	14.25 °C	1,751.5 µS/cm	0.19 mg/L	17.00 NTU	58.7 mV	5.70 ft	400.00 ml/min
2/19/2025 1:45 PM	03:30:00	6.37 pH	14.29 °C	1,751.3 µS/cm	0.22 mg/L	15.00 NTU	59.1 mV	5.70 ft	400.00 ml/min

2/19/2025 1:50 PM	03:35:00	6.37 pH	14.19 °C	1,751.8 µS/cm	0.20 mg/L	19.00 NTU	59.0 mV	5.70 ft	400.00 ml/min
2/19/2025 1:55 PM	03:40:00	6.37 pH	14.33 °C	1,755.2 µS/cm	0.20 mg/L	20.00 NTU	59.1 mV	5.70 ft	400.00 ml/min
2/19/2025 2:00 PM	03:45:00	6.37 pH	14.52 °C	1,747.0 µS/cm	0.20 mg/L	19.00 NTU	59.3 mV	5.70 ft	400.00 ml/min
2/19/2025 2:05 PM	03:50:00	6.37 pH	14.28 °C	1,751.8 µS/cm	0.19 mg/L	16.00 NTU	58.8 mV	5.70 ft	400.00 ml/min
2/19/2025 2:10 PM	03:55:00	6.37 pH	14.22 °C	1,749.3 µS/cm	0.19 mg/L	14.00 NTU	59.1 mV	5.70 ft	400.00 ml/min
2/19/2025 2:15 PM	04:00:00	6.38 pH	14.10 °C	1,748.3 µS/cm	0.19 mg/L	13.00 NTU	58.9 mV	5.70 ft	400.00 ml/min
2/19/2025 2:20 PM	04:05:00	6.38 pH	14.11 °C	1,743.8 µS/cm	0.24 mg/L	13.00 NTU	58.9 mV	5.70 ft	400.00 ml/min
2/19/2025 2:25 PM	04:10:00	6.38 pH	13.96 °C	1,746.9 µS/cm	0.25 mg/L	14.00 NTU	58.7 mV	5.70 ft	400.00 ml/min
2/19/2025 2:30 PM	04:15:00	6.38 pH	14.22 °C	1,749.4 µS/cm	0.25 mg/L	13.00 NTU	59.0 mV	5.70 ft	400.00 ml/min
2/19/2025 2:35 PM	04:20:00	6.38 pH	14.23 °C	1,747.2 µS/cm	0.24 mg/L	12.00 NTU	59.7 mV	5.70 ft	400.00 ml/min
2/19/2025 2:40 PM	04:25:00	6.38 pH	14.21 °C	1,743.8 µS/cm	0.24 mg/L	11.00 NTU	59.4 mV	5.70 ft	400.00 ml/min
2/19/2025 2:45 PM	04:30:00	6.38 pH	14.08 °C	1,748.5 µS/cm	0.24 mg/L	13.00 NTU	59.3 mV	5.70 ft	400.00 ml/min
2/19/2025 2:50 PM	04:35:00	6.37 pH	14.27 °C	1,750.0 µS/cm	0.22 mg/L	13.00 NTU	59.9 mV	5.70 ft	400.00 ml/min
2/19/2025 2:55 PM	04:40:00	6.38 pH	14.21 °C	1,749.9 µS/cm	0.22 mg/L	12.00 NTU	59.4 mV	5.70 ft	400.00 ml/min
2/19/2025 3:00 PM	04:45:00	6.37 pH	14.23 °C	1,750.4 µS/cm	0.22 mg/L	12.00 NTU	59.6 mV	5.70 ft	400.00 ml/min
2/19/2025 3:05 PM	04:50:00	6.38 pH	14.17 °C	1,750.0 µS/cm	0.22 mg/L	11.00 NTU	59.5 mV	5.70 ft	400.00 ml/min
2/19/2025 3:10 PM	04:55:00	6.37 pH	14.17 °C	1,751.1 µS/cm	0.23 mg/L	11.00 NTU	59.5 mV	5.70 ft	400.00 ml/min
2/19/2025 3:15 PM	05:00:00	6.38 pH	14.31 °C	1,747.5 µS/cm	0.23 mg/L	10.00 NTU	59.6 mV	5.70 ft	400.00 ml/min
2/19/2025 3:20 PM	05:05:00	6.38 pH	14.23 °C	1,750.5 µS/cm	0.22 mg/L	10.00 NTU	60.0 mV	5.70 ft	400.00 ml/min
2/19/2025 3:25 PM	05:10:00	6.37 pH	14.17 °C	1,752.0 µS/cm	0.22 mg/L	9.63 NTU	59.8 mV	5.70 ft	400.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/19/2025 2:07:59 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-32S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.8 ft** **Total Depth: 47.8 ft** **Initial Depth to Water: 42.8 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 46 ft** **Estimated Total Volume Pumped: 9.6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 1.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sampled at 1508. Raining 47 degrees. Fe2+: 0.0 mg/L. APBCD-FB-02 taken here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/19/2025 2:07 PM	00:00	6.08 pH	10.96 °C	448.67 µS/cm	7.31 mg/L	51.40 NTU	69.6 mV	42.80 ft	175.00 ml/min
2/19/2025 2:13 PM	05:05	6.04 pH	16.50 °C	417.40 µS/cm	3.82 mg/L	33.70 NTU	65.4 mV	43.04 ft	175.00 ml/min
2/19/2025 2:18 PM	10:05	6.04 pH	16.69 °C	433.33 µS/cm	3.84 mg/L	28.50 NTU	59.7 mV	43.28 ft	175.00 ml/min
2/19/2025 2:23 PM	15:05	6.07 pH	17.01 °C	448.40 µS/cm	3.26 mg/L	22.50 NTU	57.3 mV	43.43 ft	175.00 ml/min
2/19/2025 2:28 PM	20:05	6.10 pH	17.10 °C	468.37 µS/cm	2.62 mg/L	18.40 NTU	69.0 mV	43.65 ft	175.00 ml/min
2/19/2025 2:33 PM	25:05	6.12 pH	17.02 °C	467.33 µS/cm	2.02 mg/L	16.40 NTU	52.5 mV	43.88 ft	150.00 ml/min
2/19/2025 2:38 PM	30:05	6.13 pH	17.08 °C	465.41 µS/cm	1.92 mg/L	13.50 NTU	52.3 mV	44.01 ft	150.00 ml/min
2/19/2025 2:43 PM	35:05	6.14 pH	16.57 °C	476.24 µS/cm	1.97 mg/L	11.40 NTU	66.6 mV	44.05 ft	150.00 ml/min
2/19/2025 2:48 PM	40:05	6.13 pH	16.62 °C	473.85 µS/cm	2.04 mg/L	10.20 NTU	67.7 mV	44.08 ft	150.00 ml/min
2/19/2025 2:53 PM	45:05	6.12 pH	16.56 °C	472.46 µS/cm	2.08 mg/L	8.54 NTU	68.9 mV	44.08 ft	150.00 ml/min
2/19/2025 2:58 PM	50:05	6.12 pH	16.76 °C	468.13 µS/cm	2.04 mg/L	7.12 NTU	54.2 mV	44.08 ft	150.00 ml/min
2/19/2025 3:03 PM	55:05	6.11 pH	16.82 °C	460.68 µS/cm	2.23 mg/L	5.54 NTU	54.6 mV	44.08 ft	150.00 ml/min
2/19/2025 3:08 PM	01:00:04	6.11 pH	16.72 °C	446.66 µS/cm	2.12 mg/L	4.72 NTU	56.3 mV	44.08 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/19/2025 4:28:04 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-44 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.5 ft** **Total Depth: 59.5 ft** **Initial Depth to Water: 30.97 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54 ft** **Estimated Total Volume Pumped: 6.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.68 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sampled at 1653. Raining 44 degrees. APBCD-FD-02 taken here. Fe2+ 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/19/2025 4:28 PM	00:00	7.07 pH	12.99 °C	265.44 µS/cm	6.35 mg/L	3.60 NTU	42.1 mV	30.97 ft	260.00 ml/min
2/19/2025 4:33 PM	05:00	6.23 pH	18.13 °C	250.56 µS/cm	1.02 mg/L	2.34 NTU	70.5 mV	31.38 ft	260.00 ml/min
2/19/2025 4:38 PM	10:00	6.19 pH	18.48 °C	250.37 µS/cm	0.19 mg/L	1.94 NTU	55.9 mV	31.53 ft	260.00 ml/min
2/19/2025 4:43 PM	15:00	6.19 pH	18.61 °C	250.15 µS/cm	0.15 mg/L	1.81 NTU	54.8 mV	31.58 ft	260.00 ml/min
2/19/2025 4:48 PM	20:00	6.20 pH	18.51 °C	249.69 µS/cm	0.14 mg/L	1.36 NTU	54.6 mV	31.62 ft	260.00 ml/min
2/19/2025 4:53 PM	25:00	6.20 pH	18.57 °C	247.06 µS/cm	0.14 mg/L	1.17 NTU	53.8 mV	31.65 ft	260.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/19/2025 3:14:08 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-45 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 50 ft** **Total Depth: 60 ft** **Initial Depth to Water: 14.78 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Pump Intake From TOC: 55 ft** **Estimated Total Volume Pumped: 13.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 4.44 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1609. Rain, 44 degrees F.
Fe2+= 0.0 mg/L. Performed extended purge to confirm stable pH readings.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
2/19/2025 3:14 PM	00:00	6.02 pH	15.31 °C	454.25 µS/cm	4.90 mg/L	0.36 NTU	125.1 mV	14.78 ft	250.00 ml/min
2/19/2025 3:19 PM	05:00	5.89 pH	16.98 °C	448.05 µS/cm	2.42 mg/L	3.20 NTU	114.2 mV	15.12 ft	250.00 ml/min
2/19/2025 3:24 PM	10:00	5.82 pH	17.32 °C	445.14 µS/cm	1.83 mg/L	1.94 NTU	78.5 mV	15.14 ft	250.00 ml/min
2/19/2025 3:29 PM	15:00	5.78 pH	17.48 °C	443.98 µS/cm	1.25 mg/L	1.76 NTU	70.6 mV	15.15 ft	250.00 ml/min
2/19/2025 3:34 PM	20:00	5.76 pH	17.41 °C	443.36 µS/cm	1.57 mg/L	3.69 NTU	70.5 mV	15.15 ft	250.00 ml/min
2/19/2025 3:39 PM	25:00	5.79 pH	17.21 °C	447.57 µS/cm	1.54 mg/L	3.37 NTU	69.8 mV	15.15 ft	250.00 ml/min
2/19/2025 3:44 PM	30:00	5.85 pH	16.58 °C	444.15 µS/cm	1.39 mg/L	3.32 NTU	64.4 mV	15.15 ft	250.00 ml/min
2/19/2025 3:49 PM	35:00	5.84 pH	17.24 °C	447.34 µS/cm	1.51 mg/L	4.54 NTU	87.4 mV	15.15 ft	250.00 ml/min
2/19/2025 3:54 PM	40:00	5.80 pH	16.91 °C	451.11 µS/cm	1.77 mg/L	4.04 NTU	80.1 mV	15.15 ft	250.00 ml/min
2/19/2025 3:59 PM	45:00	5.78 pH	17.42 °C	445.08 µS/cm	1.09 mg/L	3.79 NTU	91.7 mV	15.15 ft	250.00 ml/min
2/19/2025 4:04 PM	50:00	5.76 pH	17.46 °C	444.27 µS/cm	0.99 mg/L	3.56 NTU	109.5 mV	15.15 ft	250.00 ml/min
2/19/2025 4:09 PM	55:00	5.78 pH	16.29 °C	442.32 µS/cm	1.11 mg/L	3.24 NTU	85.1 mV	15.15 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/18/2025 4:09:13 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-47 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 84 ft** **Total Depth: 94.4 ft** **Initial Depth to Water: 31.7 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 89 ft** **Estimated Total Volume Pumped: 6750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 5.28 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1654. Sunny, 54 degrees F.
Fe2+= 0.0mg/L.
FB-01 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/18/2025 4:09 PM	00:00	6.12 pH	18.01 °C	1,685.3 µS/cm	7.87 mg/L	0.35 NTU	74.4 mV	31.70 ft	150.00 ml/min
2/18/2025 4:14 PM	05:00	5.79 pH	18.17 °C	1,733.1 µS/cm	3.47 mg/L	0.34 NTU	-109.8 mV	32.07 ft	150.00 ml/min
2/18/2025 4:19 PM	10:00	5.69 pH	18.71 °C	1,688.0 µS/cm	2.77 mg/L	0.37 NTU	-29.8 mV	32.10 ft	150.00 ml/min
2/18/2025 4:24 PM	15:00	5.70 pH	18.02 °C	1,687.3 µS/cm	3.11 mg/L	0.27 NTU	0.8 mV	32.12 ft	150.00 ml/min
2/18/2025 4:29 PM	20:00	5.71 pH	17.93 °C	1,688.3 µS/cm	2.89 mg/L	0.29 NTU	39.3 mV	32.13 ft	150.00 ml/min
2/18/2025 4:34 PM	25:00	5.72 pH	17.98 °C	1,685.2 µS/cm	3.35 mg/L	0.28 NTU	56.7 mV	32.14 ft	150.00 ml/min
2/18/2025 4:39 PM	30:00	5.69 pH	17.76 °C	1,698.3 µS/cm	2.58 mg/L	0.25 NTU	73.3 mV	32.14 ft	150.00 ml/min
2/18/2025 4:44 PM	35:00	5.73 pH	17.89 °C	1,694.9 µS/cm	3.57 mg/L	0.27 NTU	84.7 mV	32.14 ft	150.00 ml/min
2/18/2025 4:49 PM	40:00	5.73 pH	17.67 °C	1,684.1 µS/cm	3.32 mg/L	0.24 NTU	78.7 mV	32.14 ft	150.00 ml/min
2/18/2025 4:54 PM	45:00	5.73 pH	17.69 °C	1,679.9 µS/cm	3.34 mg/L	0.22 NTU	68.6 mV	32.14 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/19/2025 9:19:42 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-52I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 66.6 ft** **Total Depth: 76.6 ft** **Initial Depth to Water: 40.81 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 71 ft** **Estimated Total Volume Pumped: 13.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.6 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sampled at 1014. Raining 46 degrees. Fe2+: 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/19/2025 9:19 AM	00:00	8.05 pH	10.72 °C	509.00 µS/cm	10.60 mg/L	3.08 NTU	191.8 mV	40.81 ft	250.00 ml/min
2/19/2025 9:24 AM	05:00	8.23 pH	16.25 °C	433.40 µS/cm	1.44 mg/L	2.25 NTU	-132.9 mV	41.19 ft	250.00 ml/min
2/19/2025 9:29 AM	10:00	8.90 pH	16.65 °C	374.56 µS/cm	0.99 mg/L	1.76 NTU	-47.1 mV	41.29 ft	250.00 ml/min
2/19/2025 9:34 AM	15:00	8.94 pH	16.96 °C	369.87 µS/cm	0.70 mg/L	1.19 NTU	-40.8 mV	41.36 ft	250.00 ml/min
2/19/2025 9:39 AM	20:00	8.09 pH	17.94 °C	374.81 µS/cm	0.40 mg/L	1.14 NTU	-113.5 mV	41.39 ft	250.00 ml/min
2/19/2025 9:44 AM	25:00	7.25 pH	17.82 °C	377.29 µS/cm	0.31 mg/L	1.01 NTU	-61.6 mV	41.41 ft	250.00 ml/min
2/19/2025 9:49 AM	30:00	6.82 pH	17.73 °C	386.47 µS/cm	0.28 mg/L	0.87 NTU	-35.8 mV	41.41 ft	250.00 ml/min
2/19/2025 9:54 AM	35:00	6.58 pH	17.80 °C	398.42 µS/cm	0.30 mg/L	0.70 NTU	-18.4 mV	41.41 ft	250.00 ml/min
2/19/2025 9:59 AM	40:00	6.44 pH	17.68 °C	403.69 µS/cm	0.29 mg/L	0.65 NTU	-8.9 mV	41.41 ft	250.00 ml/min
2/19/2025 10:04 AM	45:00	6.35 pH	17.59 °C	410.30 µS/cm	0.30 mg/L	0.68 NTU	-1.5 mV	41.41 ft	250.00 ml/min
2/19/2025 10:09 AM	50:00	6.29 pH	17.55 °C	410.12 µS/cm	0.29 mg/L	0.65 NTU	2.9 mV	41.41 ft	250.00 ml/min
2/19/2025 10:14 AM	55:00	6.26 pH	17.49 °C	407.09 µS/cm	0.28 mg/L	0.61 NTU	6.7 mV	41.41 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/19/2025 11:25:30 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-63I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.2 ft** **Total Depth: 59.2 ft** **Initial Depth to Water: 39.89 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.61 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sampled at 1155. Raining 47 degrees. Fe2+: 1.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/19/2025 11:25 AM	00:00	5.87 pH	12.21 °C	765.05 µS/cm	8.91 mg/L	1.88 NTU	42.6 mV	39.89 ft	250.00 ml/min
2/19/2025 11:30 AM	05:00	5.71 pH	16.87 °C	787.23 µS/cm	1.68 mg/L	1.76 NTU	62.9 mV	40.23 ft	250.00 ml/min
2/19/2025 11:35 AM	10:00	5.68 pH	17.32 °C	794.50 µS/cm	0.51 mg/L	1.71 NTU	56.1 mV	40.37 ft	250.00 ml/min
2/19/2025 11:40 AM	15:00	5.64 pH	17.59 °C	764.19 µS/cm	0.31 mg/L	1.83 NTU	61.5 mV	40.43 ft	250.00 ml/min
2/19/2025 11:45 AM	20:00	5.62 pH	17.35 °C	794.99 µS/cm	0.25 mg/L	1.88 NTU	62.0 mV	40.47 ft	250.00 ml/min
2/19/2025 11:50 AM	25:00	5.60 pH	17.29 °C	809.61 µS/cm	0.24 mg/L	1.65 NTU	77.8 mV	40.50 ft	250.00 ml/min
2/19/2025 11:55 AM	30:00	5.59 pH	17.45 °C	796.82 µS/cm	0.22 mg/L	1.51 NTU	65.1 mV	40.50 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/18/2025 2:35:12 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-68D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 77 ft** **Total Depth: 87 ft** **Initial Depth to Water: 43.31 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 82 ft** **Estimated Total Volume Pumped: 37.7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 325 ml/min** **Final Draw Down: 458 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
No sample collected, well purged dry, allowed for overnight recharge.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/18/2025 2:35 PM	00:00	6.34 pH	24.64 °C	0.00 µS/cm	8.63 mg/L	2.61 NTU	57.0 mV	43.31 ft	100.00 ml/min
2/18/2025 2:40 PM	05:00	6.90 pH	16.27 °C	613.83 µS/cm	6.50 mg/L	2.65 NTU	100.4 mV	44.00 ft	100.00 ml/min
2/18/2025 2:45 PM	10:00	6.98 pH	15.14 °C	687.50 µS/cm	1.79 mg/L	7.42 NTU	8.0 mV	44.70 ft	100.00 ml/min
2/18/2025 2:50 PM	15:00	7.08 pH	15.27 °C	701.79 µS/cm	0.92 mg/L	10.00 NTU	-31.6 mV	45.50 ft	100.00 ml/min
2/18/2025 2:55 PM	20:00	7.16 pH	16.05 °C	694.27 µS/cm	1.16 mg/L	13.00 NTU	-22.1 mV	47.10 ft	325.00 ml/min
2/18/2025 3:00 PM	25:00	7.20 pH	15.91 °C	707.08 µS/cm	0.42 mg/L	9.21 NTU	-15.0 mV	48.80 ft	325.00 ml/min
2/18/2025 3:05 PM	30:00	7.15 pH	15.86 °C	678.33 µS/cm	1.37 mg/L	9.57 NTU	0.6 mV	50.90 ft	325.00 ml/min
2/18/2025 3:10 PM	35:00	7.11 pH	15.87 °C	668.43 µS/cm	1.68 mg/L	9.21 NTU	10.5 mV	53.00 ft	325.00 ml/min
2/18/2025 3:15 PM	40:00	7.10 pH	15.98 °C	666.30 µS/cm	1.76 mg/L	9.04 NTU	17.2 mV	55.20 ft	325.00 ml/min
2/18/2025 3:20 PM	45:00	7.10 pH	15.88 °C	665.16 µS/cm	1.95 mg/L	8.95 NTU	21.2 mV	57.30 ft	325.00 ml/min
2/18/2025 3:25 PM	50:00	7.11 pH	15.89 °C	656.36 µS/cm	2.50 mg/L	6.94 NTU	23.8 mV	59.50 ft	325.00 ml/min
2/18/2025 3:30 PM	55:00	7.13 pH	15.96 °C	650.21 µS/cm	2.93 mg/L	8.31 NTU	25.5 mV	61.20 ft	325.00 ml/min
2/18/2025 3:35 PM	01:00:00	7.14 pH	16.03 °C	645.46 µS/cm	3.16 mg/L	7.02 NTU	27.6 mV	62.90 ft	325.00 ml/min
2/18/2025 3:40 PM	01:05:00	7.14 pH	16.04 °C	644.26 µS/cm	3.41 mg/L	8.87 NTU	29.2 mV	64.60 ft	325.00 ml/min

2/18/2025 3:45 PM	01:10:00	7.15 pH	16.18 °C	641.68 µS/cm	3.61 mg/L	8.72 NTU	30.2 mV	66.40 ft	325.00 ml/min
2/18/2025 3:50 PM	01:15:00	7.16 pH	16.18 °C	638.40 µS/cm	3.80 mg/L	8.50 NTU	31.1 mV	68.20 ft	325.00 ml/min
2/18/2025 3:55 PM	01:20:00	7.17 pH	16.01 °C	640.07 µS/cm	4.19 mg/L	8.95 NTU	31.8 mV	69.90 ft	325.00 ml/min
2/18/2025 4:00 PM	01:25:00	7.18 pH	16.09 °C	638.44 µS/cm	4.46 mg/L	6.82 NTU	32.9 mV	71.70 ft	325.00 ml/min
2/18/2025 4:05 PM	01:30:00	7.19 pH	15.95 °C	639.47 µS/cm	4.56 mg/L	5.35 NTU	33.6 mV	73.50 ft	325.00 ml/min
2/18/2025 4:10 PM	01:35:00	7.19 pH	15.85 °C	641.50 µS/cm	4.63 mg/L	4.91 NTU	34.2 mV	75.30 ft	325.00 ml/min
2/18/2025 4:15 PM	01:40:00	7.20 pH	15.59 °C	642.35 µS/cm	4.62 mg/L	4.10 NTU	34.6 mV	76.40 ft	325.00 ml/min
2/18/2025 4:20 PM	01:45:00	7.20 pH	15.53 °C	644.53 µS/cm	4.58 mg/L	2.37 NTU	34.9 mV	77.60 ft	325.00 ml/min
2/18/2025 4:25 PM	01:50:00	7.20 pH	15.50 °C	647.11 µS/cm	4.49 mg/L	11.00 NTU	35.1 mV	78.20 ft	325.00 ml/min
2/18/2025 4:30 PM	01:55:00	7.21 pH	15.57 °C	661.66 µS/cm	3.59 mg/L	13.00 NTU	35.8 mV	78.90 ft	325.00 ml/min
2/18/2025 4:35 PM	02:00:00	7.23 pH	15.37 °C	681.83 µS/cm	2.46 mg/L	15.00 NTU	32.7 mV	79.50 ft	325.00 ml/min
2/18/2025 4:40 PM	02:05:00	7.25 pH	14.92 °C	679.44 µS/cm	2.34 mg/L	17.00 NTU	21.0 mV	80.80 ft	325.00 ml/min
2/18/2025 4:45 PM	02:10:00	7.25 pH	15.30 °C	682.81 µS/cm	2.39 mg/L	14.00 NTU	16.4 mV	81.50 ft	325.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/19/2025 9:10:31 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-68D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 77 ft** **Total Depth: 87 ft** **Initial Depth to Water: 49.85 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 82 ft** **Estimated Total Volume Pumped: 2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 54 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Light rain, sample time 0930, fe2+=0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/19/2025 9:10 AM	00:00	7.77 pH	8.18 °C	9.23 µS/cm	11.65 mg/L	20.00 NTU	267.6 mV	49.85 ft	100.00 ml/min
2/19/2025 9:15 AM	05:00	7.12 pH	9.77 °C	678.91 µS/cm	6.75 mg/L	10.00 NTU	174.5 mV	51.00 ft	100.00 ml/min
2/19/2025 9:20 AM	10:00	7.19 pH	10.53 °C	689.25 µS/cm	1.88 mg/L	9.83 NTU	49.7 mV	52.20 ft	100.00 ml/min
2/19/2025 9:25 AM	15:00	7.22 pH	10.81 °C	684.04 µS/cm	1.70 mg/L	10.00 NTU	32.7 mV	53.40 ft	100.00 ml/min
2/19/2025 9:30 AM	20:00	7.23 pH	11.20 °C	687.55 µS/cm	1.52 mg/L	9.71 NTU	27.6 mV	54.40 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/18/2025 4:13:00 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-74I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40.9 ft** **Total Depth: 50.9 ft** **Initial Depth to Water: 29.01 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 45 ft** **Estimated Total Volume Pumped: 5.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sampled at 1638. Cloudy 55 degrees. Fe2+: 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/18/2025 4:13 PM	00:00	6.29 pH	17.45 °C	632.79 µS/cm	6.90 mg/L	3.77 NTU	91.8 mV	29.01 ft	220.00 ml/min
2/18/2025 4:18 PM	05:00	6.08 pH	17.90 °C	618.65 µS/cm	3.68 mg/L	3.43 NTU	133.2 mV	29.19 ft	220.00 ml/min
2/18/2025 4:23 PM	10:00	6.04 pH	17.95 °C	603.83 µS/cm	3.03 mg/L	7.34 NTU	99.2 mV	29.25 ft	220.00 ml/min
2/18/2025 4:28 PM	15:00	6.04 pH	17.94 °C	600.79 µS/cm	2.88 mg/L	6.80 NTU	95.2 mV	29.28 ft	220.00 ml/min
2/18/2025 4:33 PM	20:00	6.03 pH	17.95 °C	600.64 µS/cm	2.83 mg/L	4.89 NTU	92.6 mV	29.31 ft	220.00 ml/min
2/18/2025 4:38 PM	25:00	6.03 pH	17.96 °C	599.70 µS/cm	2.81 mg/L	4.08 NTU	90.8 mV	29.31 ft	220.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/18/2025 2:17:16 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-75I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.4 ft** **Total Depth: 30.4 ft** **Initial Depth to Water: 17.42 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 6.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sampled at 1442. Cloudy 55 degrees. Fe2+: 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/18/2025 2:17 PM	00:00	6.29 pH	19.53 °C	510.02 µS/cm	9.42 mg/L	2.27 NTU	88.7 mV	17.42 ft	250.00 ml/min
2/18/2025 2:22 PM	05:00	5.82 pH	18.05 °C	577.26 µS/cm	2.42 mg/L	1.56 NTU	84.7 mV	17.49 ft	250.00 ml/min
2/18/2025 2:27 PM	10:00	5.83 pH	17.98 °C	573.83 µS/cm	2.39 mg/L	1.08 NTU	90.1 mV	17.52 ft	250.00 ml/min
2/18/2025 2:32 PM	15:00	5.83 pH	17.92 °C	574.77 µS/cm	2.40 mg/L	1.14 NTU	93.8 mV	17.52 ft	250.00 ml/min
2/18/2025 2:37 PM	20:00	5.83 pH	18.03 °C	574.71 µS/cm	2.40 mg/L	0.97 NTU	97.3 mV	17.52 ft	250.00 ml/min
2/18/2025 2:42 PM	25:00	5.84 pH	18.02 °C	573.92 µS/cm	2.42 mg/L	1.03 NTU	97.9 mV	17.52 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Pilot Branch Date: 2/18/25

Calibrated By: J. Brassfield Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 40	989619
Turbidity Meter	HACH 2100Q	22080P001127

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	466138	7/26	PINE
pH (SU)	7.00	461 0915	9/26	PINE
pH (SU)	10.00	46C0600	3/26	PINE
Specific Conductance (µS/cm)	1,413	46H 0240	8/25	PINE
ORP (mV)	240.0	4660438	4/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4172	9/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: 0834		**Time Finish:** 0847			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	92.4	3.14	± 10%	EPA 2023
pH (SU)	4.00	4.00	3.53	± 0.1	GWMP
pH (SU)	7.00	7.06	3.07	± 0.1	GWMP
pH (SU)	10.00	10.14	2.92	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1233	1233	2.87	± 10% of standard	NA
ORP (mV)	~~240.0~~ 258	257	2.77	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.11	± 10% of standard	EPA 2023
	10	10.0		
	20	21.9		
	100	108		

Calibration Check					
Time Start 1411		**Time Finish** 1423			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.07	10.72	± 0.1	GWMP
pH (SU)	7.00	7.02	10.48	± 0.1	GWMP
pH (SU)	10.00	10.04	9.97	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1280	1317	10.21	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.12	± 10% of standard	EPA 2023
	10	9.91		
	20	20.8		
	100	106		

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Beach BCD

Date: 2/19/25

Calibrated By: J. Bestford

Field Conditions: Light Rain

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	489619
Turbidity Meter	HACH 2100Q	22080D001127

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	NA	DI H2O	~~Pine~~
pH (SU)	4.00	4661238	7/26	Pine
pH (SU)	7.00	461 0915	9/26	Pine
pH (SU)	10.00	46C0600	3/26	Pine
Specific Conductance (µS/cm)	1,413	46H0240	8/25	Pine
ORP (mV)	240.0	4666438	4/25	Pine

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H2O	—	HACH
	10	A4172	9/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: 0830		Time Finish: 0841			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	107.9	9.27	± 10%	EPA 2023
pH (SU)	4.00	4.00	8.31	± 0.1	GWMP
pH (SU)	7.00	7.06	7.59	± 0.1	GWMP
pH (SU)	10.00	10.14	7.83	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1413~~ 1284	1284	7.45	± 10% of standard	NA
ORP (mV)	~~240.0~~ 252	251	7.32	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.09	± 10% of standard	EPA 2023
	10	10.2		
	20	18.7		
	100	95.5		

Calibration Check					
Time Start 1558		Time Finish 1608			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.02	11.72	± 0.1	GWMP
pH (SU)	7.00	6.95	10.94	± 0.1	GWMP
pH (SU)	10.00	10.07	10.88	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1413~~ 1284	1382	11.07	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.11	± 10% of standard	EPA 2023
	10	9.97		
	20	19.9		
	100	105		

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch Date: 2-18-25

Calibrated By: T Goble Field Conditions: Cloudy 38°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1170046
Turbidity Meter	HACH 2100Q	24010D000439

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	24010943	5/25	PINE
pH (SU)	7.00	24008587	6/25	PINE
pH (SU)	10.00	24004996	6/25	PINE
Specific Conductance (µS/cm)	~~1413~~ 4490	24010943	5/25	PINE
ORP (mV)	~~240.0~~ 228	24011792	6/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A3139	8/25	HACH
	20	A3138	8/25	HACH
	100	A3139	8/25	HACH

Calibration					
Time Start: 0815		**Time Finish:** 0830			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	95.70	4.51	± 10%	EPA 2023
pH (SU)	4.00	4.00	2.88	± 0.1	GWMP
pH (SU)	7.00	7.06	3.76	± 0.1	GWMP
pH (SU)	10.00	10.14	4.33	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1413~~ 4490	4594	2.83	± 10% of standard	NA
ORP (mV)	~~240.0~~ 228	226.3	4.56	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.22	± 10% of standard	EPA 2023
	10	10.8		
	20	20.3		
	100	102		

Calibration Check					
Time Start 1315		**Time Finish** 1330			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.02	10.12	± 0.1	GWMP
pH (SU)	7.00	7.02	10.15	± 0.1	GWMP
pH (SU)	10.00	10.05	10.90	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1413~~ 4490	4510	11.15	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.18	± 10% of standard	EPA 2023
	10	10.2		
	20	20.2		
	100	102		

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch

Date: 2-19-25

Calibrated By: T. Goble

Field Conditions: Cloudy 43°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1170046
Turbidity Meter	HACH 2100Q	24010D000439

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	24010943	5/25	PINE
pH (SU)	7.00	24008587	6/25	PINE
pH (SU)	10.00	24004996	6/25	PINE
Specific Conductance (µS/cm)	~~1,413~~ 490	24010943	5/25	PINE
ORP (mV)	~~240.0~~ 228	24011792	6/25	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A3139	8/25	HACH
	20	A3138	8/25	HACH
	100	A3139	8/25	HACH

Calibration					
Time Start: 0830		Time Finish: 0845			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	102.69	5.98	± 10%	EPA 2023
pH (SU)	4.00	4.00	7.70	± 0.1	GWMP
pH (SU)	7.00	7.06	8.08	± 0.1	GWMP
pH (SU)	10.00	10.14	8.43	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 490	4382	7.35	± 10% of standard	NA
ORP (mV)	~~240.0~~ 228	219.2	8.41	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.27	± 10% of standard	EPA 2023
	10	10.8		
	20	20.0		
	100	99.7		

Calibration Check					
Time Start 1240		Time Finish 1300			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.01	11.21	± 0.1	GWMP
pH (SU)	7.00	7.02	11.27	± 0.1	GWMP
pH (SU)	10.00	10.04	11.92	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 490	4502	12.03	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.17	± 10% of standard	EPA 2023
	10	10.2		
	20	20.1		
	100	100.1		

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AP-BCD Date: 2/18/25

Calibrated By: D. Johnson Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTROLL 400	884189
Turbidity Meter	HACH 2100Q	24010D0006826

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	—
pH (SU)	4.00	24010943	05/25	Pine
pH (SU)	7.00	4GI0915	09/26	↓
pH (SU)	10.00	4GI61192	01/26	
Specific Conductance (µS/cm)	1,413	4GI10240	08/25	
ORP (mV)	240.0	9GI49172	08/25	

Parameter	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	—	—	—
	10	AU172	9/25	~~Aqua~~ Hach
	20	AU183	10/25	↓
	100	AU179	10/25	

Calibration

Time Start: 0850 Time Finish: 0902

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.2	0.50	± 10%	EPA 2023
pH (SU)	4.00	4.00	1.01	± 0.1	GWMP
pH (SU)	7.00	7.06	0.75	± 0.1	GWMP
pH (SU)	10.00	10.14	0.48	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1468	1.23	± 10% of standard	NA
ORP (mV)	240.0	242.7	0.48	± 10	EPA 2023

Parameter	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.21	± 10% of standard	EPA 2023
	10	10.1		
	20	20.1		
	100	100		

Calibration Check

Time Start 1150 Time Finish 1200

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.02	11.2	± 0.1	GWMP
pH (SU)	7.00	7.00	11.0	± 0.1	GWMP
pH (SU)	10.00	10.05	11.2	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1420	11.3	± 10% of standard	EPA 2023

Parameter	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.11	± 10% of standard	EPA 2023
	10	10.1		
	20	20.0		
	100	101		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AP-BCD Date: 2/19/25

Calibrated By: D. Samsen Field Conditions: Rain

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	6884189
Turbidity Meter	HACH 2100Q	24010 Dec 24 26

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	24010943	05/25	PINE
pH (SU)	7.00	4GI0915	09/26	PINE
pH (SU)	10.00	4GI61192	01/26	PINE
Specific Conductance (µS/cm)	1,413	4GH0240	08/25	PINE
ORP (mV)	240.0	9GH9172	08/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4172	09/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: 0830		**Time Finish:** 0842			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.2	6.02	± 10%	EPA 2023
pH (SU)	4.00	4.00	5.88	± 0.1	GWMP
pH (SU)	7.00	7.06	5.59	± 0.1	GWMP
pH (SU)	10.00	10.1	6.15	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1429	5.83	± 10% of standard	NA
ORP (mV)	240.0	242.7	5.56	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.22	± 10% of standard	EPA 2023
	10	10.8		
	20	20.4		
	100	102		

Calibration Check					
Time Start 1105		**Time Finish** 1115			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.02	7.90	± 0.1	GWMP
pH (SU)	7.00	7.03	~~7.82~~ ~~10.83~~	± 0.1	GWMP
pH (SU)	10.00	10.05	7.91	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1410	7.81	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.21	± 10% of standard	EPA 2023
	10	10.1		
	20	20.0		
	100	101		

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	884189
Created	2/18/2025

Sensor	**RDO**
Serial Number	1114594
Last Calibrated	2/18/2025

Calibration Details

Slope	1.1178658
Offset	-0.00 mg/L

Calibration point 100%

Concentration	13.07 mg/L
Temperature	-0.05 °C
Barometric Pressure	1,010.9 mbar

Sensor	**Conductivity**
Serial Number	884189
Last Calibrated	2/18/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.804
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879249
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21633
Last Calibrated	2/18/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	138.8 mV
Temperature	1.20 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-9.3 mV
Temperature	0.75 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-174.3 mV
Temperature	0.48 °C

Slope and Offset 1

Slope	-48.4 mV/pH
Offset	-6.4 mV

Slope and Offset 2

Slope	-53.55 mV/pH
Offset	-6.1 mV

ORP

ORP Solution	Zobell's
Offset	2.4 mV
Temperature	10.17 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	884189
Created	2/19/2025

Sensor	**RDO**
Serial Number	1114594
Last Calibrated	2/19/2025

Calibration Details

Slope	1.1246743
Offset	-0.00 mg/L

Calibration point 100%

Concentration	9.20 mg/L
Temperature	13.59 °C
Barometric Pressure	1,007.9 mbar

Sensor	**Conductivity**
Serial Number	884189
Last Calibrated	2/19/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.871
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879249
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21633
Last Calibrated	2/19/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	129.1 mV
Temperature	8.19 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-13.5 mV
Temperature	7.90 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-178.3 mV
Temperature	8.72 °C

Slope and Offset 1

Slope	-46.59 mV/pH
Offset	-10.7 mV

Slope and Offset 2

Slope	-53.51 mV/pH
Offset	-10.3 mV

ORP

ORP Solution	Zobell's
Offset	2.4 mV
Temperature	10.17 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	989619
Created	2/18/2025

Sensor	**RDO**
Serial Number	1144824
Last Calibrated	2/18/2025

Calibration Details

Slope	1.0844233
Offset	-0.00 mg/L

Calibration point 100%

Concentration	12.33 mg/L
Temperature	3.14 °C
Barometric Pressure	1,010.3 mbar

Sensor	**Conductivity**
Serial Number	989619
Last Calibrated	2/18/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.85
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	991190
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22096
Last Calibrated	2/18/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	146.5 mV
Temperature	3.33 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-13.5 mV
Temperature	3.07 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-177.0 mV
Temperature	2.92 °C

Slope and Offset 1

Slope	-52.27 mV/pH
Offset	-10.3 mV

Slope and Offset 2

Slope	-53.09 mV/pH
Offset	-10.3 mV

ORP

ORP Solution	Zobell's
Offset	1.6 mV
Temperature	2.77 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	989619
Created	2/19/2025

Sensor	**RDO**
Serial Number	1144824
Last Calibrated	2/19/2025

Calibration Details

Slope	1.0026877
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.39 mg/L
Temperature	9.27 °C
Barometric Pressure	1,007.7 mbar

Sensor	**Conductivity**
Serial Number	989619
Last Calibrated	2/19/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.814
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	991190
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22096
Last Calibrated	2/19/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	154.2 mV
Temperature	8.31 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-12.6 mV
Temperature	7.59 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-171.0 mV
Temperature	7.83 °C

Slope and Offset 1

Slope	-54.53 mV/pH
Offset	-9.3 mV

Slope and Offset 2

Slope	-51.41 mV/pH
Offset	-9.5 mV

ORP

ORP Solution	Zobell's
Offset	4.8 mV
Temperature	7.32 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1170046
Created	2/18/2025

Sensor **RDO**

Serial Number	1165124
Last Calibrated	2/18/2025

Calibration Details

Slope	0.9670814
Offset	-0.00 mg/L

Calibration point 100%

Concentration	13.34 mg/L
Temperature	4.46 °C
Barometric Pressure	1,009.3 mbar

Sensor **Conductivity**

Serial Number	1170046
Last Calibrated	2/18/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.906
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor **Level**

Serial Number	1167507
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22818
Last Calibrated	2/18/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	154.8 mV
Temperature	2.88 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-10.7 mV
Temperature	3.76 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-171.6 mV
Temperature	4.33 °C

Slope and Offset 1

Slope	-54.06 mV/pH
Offset	-7.4 mV

Slope and Offset 2

Slope	-52.26 mV/pH
Offset	-7.5 mV

ORP

ORP Solution	ORP Standard
Offset	-23.8 mV
Temperature	4.57 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1170046
Created	2/19/2025

Sensor	**RDO**
Serial Number	1165124
Last Calibrated	2/19/2025

Calibration Details

Slope	0.9444605
Offset	-0.00 mg/L

Calibration point 100%

Concentration	13.09 mg/L
Temperature	6.00 °C
Barometric Pressure	1,006.7 mbar

Sensor	**Conductivity**
Serial Number	1170046
Last Calibrated	2/19/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.929
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1167507
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22818
Last Calibrated	2/19/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	151.9 mV
Temperature	7.71 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-13.4 mV
Temperature	8.09 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-176.9 mV
Temperature	8.47 °C

Slope and Offset 1

Slope	-54.02 mV/pH
Offset	-10.1 mV

Slope and Offset 2

Slope	-53.1 mV/pH
Offset	-10.2 mV

ORP

ORP Solution	ORP Standard
Offset	-14.5 mV
Temperature	8.39 °C

APPENDIX D

Statistical Analysis Report

GROUNDWATER STATS CONSULTING

February 28, 2025

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Branch Ponds B, C, D – August 2024 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2024 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Ponds B, C, and D. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 for most wells. However, sampling for wells BRGWC-45, BRGWC-47, and BRGWC-52I began in 2018, and at least 8 background samples have been collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations.

The current monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, BRGWA-6S, and BRGWA-23S
- **Downgradient wells:** BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I, BRGWC-44, and PZ-63I
- **Assessment wells:** PZ-68D, PZ-74I, and PZ-75I

Previously, the monitoring well network included upgradient wells BRGWA-12I and BRGWA-12S, and several assessment wells, which have since been abandoned. While those assessment wells are no longer included in the statistical analysis per request of Geosyntec Consultants, Inc., data from upgradient wells BRGWA-12I and BRGWA-12S will continue to be included in construction of interwell prediction limits and interwell upper tolerance limits since the data represent historical groundwater quality upgradient of the facility.

Data from newer assessment wells PZ-74I and PZ-75I, which were first sampled in September 2023, are plotted on time series and box plots and will be evaluated using confidence intervals for Appendix IV constituents when a minimum of 4 samples is available. Downgradient well BRGWC-44 was previously designated as assessment well PZ-44 and has been reclassified. Data from this well are analyzed for all Appendix III constituents (except pH which does not yet have a minimum of 8 samples) and Appendix IV constituents using interwell prediction limits and confidence intervals, respectively. Similarly, downgradient well PZ-63I was previously designated as an assessment well and has been reclassified. Data from well PZ-63I are plotted on time series and box plots and will be evaluated with prediction limits and confidence intervals when at least 8 observations have been collected. Note that a confidence interval was constructed for cobalt at PZ-63I and is discussed below.

Data were sent electronically to GSC, and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter. A substitution of the most recent reporting limit is used for non-detect data.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Assessment well data are included on the time series graphs, and are included with the confidence intervals when a minimum

of 4 samples is available as discussed above. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).

- When data contain <15% non-detects, simple substitution of one-half the most reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary. Although outliers are screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits. The current list of outliers includes a few additional measurements that were not flagged as outliers in the previous background screening list for Appendix III parameters.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, several outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a future trend. If future values do not remain at similar concentrations, these values will

be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. Note that the reporting limit for boron during the March 2019 event was 0.1 mg/L; however, the historical reporting limit of 0.04 mg/L was substituted at that time for all non-detects which provided more conservative (lower) statistical limits.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Tests

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses, included with the background screening report, showed a number of statistically significant decreasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – August 2024

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2024 (Figure D). Background (upgradient) well data were reassessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. As mentioned above, data from abandoned upgradient wells BRGWA-12I and BRGWA-12S are included in calculations for interwell prediction limits. The August 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction

limit exceedances were noted for several Appendix III parameters. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-44 BRGWC-47, and BRGWC-52I
- Calcium: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-45, BRGWC-47, and BRGWC-52I
- Chloride: BRGWC-25I, BRGWC-29I, BRGWC-44, BRGWC-45, and BRGWC-52I
- pH (lower limit): BRGWC-29I and BRGWC-47
- Sulfate: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, and BRGWC-52I
- TDS: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, and BRGWC-52I

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter and statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BRGWC-47
- Calcium: BRGWA-2S, BRGWA-6S (both upgradient), and BRGWC-30I
- Sulfate: BRGWC-30I
- TDS: BRGWC-30I

Decreasing:

- Boron: BRGWC-29I
- Calcium: BRGWA-23S (upgradient) and BRGWC-32S
- Chloride: BRGWA-12I, BRGWA-23S, BRGWA-5I, BRGWA-5S (all four upgradient), BRGWC-45, and BRGWC-52I
- pH: BRGWA-2I, BRGWA-2S, and BRGWA-5S (all three upgradient), and BRGWC-47

- Sulfate: BRGWA-12I BRGWA-12S, BRGWA-23S (all three upgradient), BRGWC-25I, BRGWC-27I, BRGWC-32S, and BRGWC-47
- TDS: BRGWA-23S, BRGWA-5S (both upgradient), BRGWC-25I, BRGWC-27I, BRGWC-32S, BRGWC-45, and BRGWC-47

Evaluation of Appendix IV Parameters – August 2024

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2024 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title

- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G). Note that due to the steady increase in concentrations for antimony at upgradient well BRGWA-12I, the MCL was used in lieu of the Background limit for antimony to maintain a GWPS that is conservative from a regulatory perspective.

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for Appendix IV constituents in each downgradient with a minimum of 8 samples and assessment wells with a minimum of 4 samples (Figure H). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above.

Note that due to the limited sample size, the lower confidence limit of a parametric confidence interval resulted in a negative number for combined radium 226 + 228 at assessment well PZ-68D. Therefore, a non-parametric confidence interval, which is bound by reported high and low measurements within a given well was constructed for this particular case and follows the confidence intervals (Figure H). This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data.

When evaluating the entire record of data for selenium at downgradient well BRGWC-32S, a steady increasing trend in concentrations since 2019 was noted. Therefore, the confidence interval evaluates data since 2019, for this well/constituent pair (USEPA Unified Guidance, 2009, Chapter 7). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified.

Statistical exceedances were identified for the following well/constituent pair:

- *Cobalt: PZ-63I
- Selenium: BRGWC-32S

Note that although cobalt at downgradient well PZ-63I has less than 8 observations, it was previously reported as an exceedance and will continue to be included in confidence interval reporting. An Alternate Source Demonstration (ASD) has been, reportedly, performed for this well/constituent pair.

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified:

Increasing:
- Cobalt: PZ-63I
- Selenium: BRGWC-32S

Decreasing:
- Cobalt: BRGWA-2S, BRGWA-5I, and BRGWA-23S (all upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Ponds B, C, D. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Kristina Rayner
Senior Statistician

Andrew T. Collins
Project Manager

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 1/10/2025 11:16 AM View: Confidence Intervals BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Antimony (mg/L)
BRGWC-25I, BRGWC-27I, BRGWC-44

Beryllium (mg/L)
BRGWC-25I, BRGWC-30I, BRGWC-32S, BRGWC-52I, BRGWC-44, PZ-68D

Cadmium (mg/L)
BRGWC-25I, BRGWC-29I, BRGWC-52I, BRGWC-44, PZ-68D

Chromium (mg/L)
BRGWC-44, PZ-68D

Lead (mg/L)
BRGWC-32S, BRGWC-44

Lithium (mg/L)
BRGWC-25I

Mercury (mg/L)
BRGWC-45, BRGWC-47, BRGWC-52I, BRGWC-44, PZ-68D

Molybdenum (mg/L)
BRGWC-29I, BRGWC-32S, BRGWC-44

Selenium (mg/L)
BRGWC-52I, BRGWC-44, PZ-68D

Thallium (mg/L)
BRGWC-25I, BRGWC-27I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I, BRGWC-44, PZ-68D

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Date Ranges

Date: 11/15/2024 2:52 PM

Plant Branch Client: Southern Company Data: Plant Branch AP

Selenium (mg/L)

BRGWC-32S overall:8/27/2019-8/28/2024

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	8/29/2024	2.04	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	8/27/2024	1.28	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	8/27/2024	1.09	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	8/28/2024	1.82	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	8/28/2024	0.996	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	8/28/2024	0.508	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	8/28/2024	1.44	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-44	0.068	n/a	8/27/2024	1.16	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	8/29/2024	77.6	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	8/27/2024	75.9	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	8/27/2024	70.5	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	8/28/2024	419	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	8/28/2024	37.4	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	8/29/2024	42.9	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	8/28/2024	302	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	8/28/2024	36.8	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-44	24	n/a	8/27/2024	24.9	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	8/29/2024	13.7	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	8/27/2024	8.87	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	8/29/2024	24.8	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	8/28/2024	6.58	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-44	5.8	n/a	8/27/2024	5.99	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.034	5.577	8/27/2024	4.47	Yes	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-47	7.034	5.577	8/28/2024	5.57	Yes	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	8/29/2024	216	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	8/27/2024	174	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	8/27/2024	261	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	8/28/2024	1260	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	8/28/2024	201	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	8/29/2024	150	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	8/28/2024	1310	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	8/28/2024	150	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	183.3	n/a	8/29/2024	492	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	183.3	n/a	8/27/2024	346	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	183.3	n/a	8/27/2024	424	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	183.3	n/a	8/28/2024	2030	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	183.3	n/a	8/28/2024	374	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	183.3	n/a	8/29/2024	353	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	183.3	n/a	8/28/2024	1780	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	183.3	n/a	8/28/2024	310	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-25I**	**0.068**	**n/a**	**8/29/2024**	**2.04**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-27I**	**0.068**	**n/a**	**8/27/2024**	**1.28**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-29I**	**0.068**	**n/a**	**8/27/2024**	**1.09**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-30I**	**0.068**	**n/a**	**8/28/2024**	**1.82**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-32S**	**0.068**	**n/a**	**8/28/2024**	**0.996**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-45	0.068	n/a	8/29/2024	0.0431	No	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-47**	**0.068**	**n/a**	**8/28/2024**	**0.508**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-52I**	**0.068**	**n/a**	**8/28/2024**	**1.44**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-44**	**0.068**	**n/a**	**8/27/2024**	**1.16**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-25I**	**24**	**n/a**	**8/29/2024**	**77.6**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-27I**	**24**	**n/a**	**8/27/2024**	**75.9**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-29I**	**24**	**n/a**	**8/27/2024**	**70.5**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-30I**	**24**	**n/a**	**8/28/2024**	**419**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-32S**	**24**	**n/a**	**8/28/2024**	**37.4**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-45**	**24**	**n/a**	**8/29/2024**	**42.9**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-47**	**24**	**n/a**	**8/28/2024**	**302**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-52I**	**24**	**n/a**	**8/28/2024**	**36.8**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-44**	**24**	**n/a**	**8/27/2024**	**24.9**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-25I**	**5.8**	**n/a**	**8/29/2024**	**13.7**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-27I	5.8	n/a	8/27/2024	4.47	No	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-29I**	**5.8**	**n/a**	**8/27/2024**	**8.87**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-30I	5.8	n/a	8/28/2024	3.48	No	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	8/28/2024	4.09	No	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-45**	**5.8**	**n/a**	**8/29/2024**	**24.8**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-47	5.8	n/a	8/28/2024	4.57	No	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-52I**	**5.8**	**n/a**	**8/28/2024**	**6.58**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-44**	**5.8**	**n/a**	**8/27/2024**	**5.99**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	8/29/2024	0.248	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	8/27/2024	0.382	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	8/27/2024	0.0849J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	8/28/2024	0.336J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	8/28/2024	0.0511J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	8/29/2024	0.078J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	8/28/2024	0.033ND	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	8/28/2024	0.0748J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-44	0.42	n/a	8/27/2024	0.193	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-25I	7.034	5.577	8/29/2024	6.52	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-27I	7.034	5.577	8/27/2024	5.95	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-29I**	**7.034**	**5.577**	**8/27/2024**	**4.47**	**Yes**	**172**	**6.305**	**0.3796**	**0**	**None**	**No**	**0.0004179**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-30I	7.034	5.577	8/28/2024	6.49	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-32S	7.034	5.577	8/28/2024	6.05	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-45	7.034	5.577	8/29/2024	6.26	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-47**	**7.034**	**5.577**	**8/28/2024**	**5.57**	**Yes**	**172**	**6.305**	**0.3796**	**0**	**None**	**No**	**0.0004179**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-52I	7.034	5.577	8/28/2024	6.49	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
Sulfate (mg/L)	**BRGWC-25I**	**89**	**n/a**	**8/29/2024**	**216**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-27I**	**89**	**n/a**	**8/27/2024**	**174**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-29I**	**89**	**n/a**	**8/27/2024**	**261**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-30I**	**89**	**n/a**	**8/28/2024**	**1260**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-32S**	**89**	**n/a**	**8/28/2024**	**201**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-45**	**89**	**n/a**	**8/29/2024**	**150**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-47**	**89**	**n/a**	**8/28/2024**	**1310**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-52I**	**89**	**n/a**	**8/28/2024**	**150**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-44	89	n/a	8/27/2024	41.8	No	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**183.3**	**n/a**	**8/29/2024**	**492**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**183.3**	**n/a**	**8/27/2024**	**346**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids (mg/L)	**BRGWC-29I**	**183.3**	**n/a**	**8/27/2024**	**424**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**183.3**	**n/a**	**8/28/2024**	**2030**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**183.3**	**n/a**	**8/28/2024**	**374**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**183.3**	**n/a**	**8/29/2024**	**353**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**183.3**	**n/a**	**8/28/2024**	**1780**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-52I**	**183.3**	**n/a**	**8/28/2024**	**310**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	BRGWC-44	183.3	n/a	8/27/2024	180	No	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2

Appendix III - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:12 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	BRGWC-29I	-0.08779	-95	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03101	100	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.303	-127	-81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.1911	100	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1244	107	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	45.33	165	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-32S	-3.16	-84	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.23	-130	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1245	-93	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.06359	-100	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.079	-132	-87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.1515	-83	-81	Yes	20	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.06454	-116	-92	Yes	22	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03038	-116	-92	Yes	22	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.0462	-104	-92	Yes	22	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-47	-0.02599	-99	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-9.079	-112	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-18.92	-90	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-19.62	-140	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	116.8	128	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-27.39	-116	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-39.5	-91	-87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-11.78	-117	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-7.447	-115	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-25.85	-88	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-20.5	-110	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	188.3	144	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-36.68	-135	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-19.95	-119	-87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-47	-40.59	-82	-81	Yes	20	0	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:12 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.0005097	9	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	BRGWA-2I (bg)	0.0002903	43	81	No	20	35	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-10	-81	No	20	85	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-9	-81	No	20	75	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-81	No	20	55	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-5	-81	No	20	75	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	0	-5	-81	No	20	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.05377	-58	-87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**BRGWC-29I**	**-0.08779**	**-95**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-30I	0.05462	72	87	No	21	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-32S	-0.05585	-79	-87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**BRGWC-47**	**0.03101**	**100**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-52I	0.03284	48	81	No	20	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-44	-0.1363	-24	-25	No	9	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-23S (bg)**	**-1.303**	**-127**	**-81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.1344	17	81	No	20	5	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1911**	**100**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.1912	52	81	No	20	5	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5187	-75	-81	No	20	5	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1244**	**107**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-25I	-2.049	-44	-81	No	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-27I	-2.088	-66	-81	No	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-29I	-2.357	-38	-81	No	20	0	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-30I**	**45.33**	**165**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-32S**	**-3.16**	**-84**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-45	-1.597	-83	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-47	0	3	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.5141	-29	-74	No	19	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-44	0.02606	8	25	No	9	22.22	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-12I (bg)**	**-0.1919**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-23S (bg)**	**-0.23**	**-130**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.01185	-18	-81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0.02985	28	81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1245**	**-93**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06359**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	0	-14	-81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-25I	-0.1552	-17	-81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.05551	-22	-81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-45**	**-7.079**	**-132**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-52I**	**-0.1515**	**-83**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-44	0.0637	9	25	No	9	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12I (bg)	-0.02367	-36	-87	No	21	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12S (bg)	-0.01755	-49	-81	No	20	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-23S (bg)	-0.01775	-30	-92	No	22	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.06454**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03038**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.008211	-26	-92	No	22	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.0462**	**-104**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.005567	-8	-87	No	21	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-29I	-0.008383	-25	-92	No	22	0	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:12 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
pH, Field (S.U.)	**BRGWC-47**	**-0.02599**	**-99**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12I (bg)**	**-0.2108**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12S (bg)**	**-0.126**	**-88**	**-68**	**Yes**	**18**	**16.67**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-23S (bg)**	**-9.079**	**-112**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.308	-72	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	-0.02433	-35	-81	No	20	30	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2157	-74	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03749	-68	-81	No	20	30	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01207	-42	-81	No	20	20	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-25I**	**-18.92**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-27I**	**-19.62**	**-140**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-29I	-18.2	-69	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-30I**	**116.8**	**128**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-32S**	**-27.39**	**-116**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-45	-1.369	-26	-87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-47**	**-39.5**	**-91**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-52I	-4.768	-63	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-23S (bg)**	**-11.78**	**-117**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-9.102	-75	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.8471	-12	-81	No	20	5	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.51	-54	-81	No	20	5	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-115**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.988	-30	-74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**-25.85**	**-88**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**-20.5**	**-110**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-29I	-37.85	-72	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**188.3**	**144**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**-36.68**	**-135**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**-19.95**	**-119**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**-40.59**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-52I	-9.317	-70	-81	No	20	0	n/a	0.01	NP

Upper Tolerance Limits

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 10:24 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0245	n/a	n/a	n/a	162	n/a	n/a	84.57	n/a	n/a	0.0002462	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	162	n/a	n/a	78.4	n/a	n/a	0.0002462	NP Inter(NDs)
Barium (mg/L)	n/a	0.13	n/a	n/a	n/a	162	n/a	n/a	0	n/a	n/a	0.0002462	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	162	n/a	n/a	100	n/a	n/a	0.0002462	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	164	n/a	n/a	98.78	n/a	n/a	0.0002222	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	162	n/a	n/a	21.6	n/a	n/a	0.0002462	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0135	n/a	n/a	n/a	162	n/a	n/a	54.94	n/a	n/a	0.0002462	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	2.326	n/a	n/a	n/a	162	0.9094	0.3312	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.42	n/a	n/a	n/a	170	n/a	n/a	47.06	n/a	n/a	0.0001633	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	162	n/a	n/a	88.89	n/a	n/a	0.0002462	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	162	n/a	n/a	41.36	n/a	n/a	0.0002462	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	146	n/a	n/a	89.73	n/a	n/a	0.0005593	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.008	n/a	n/a	n/a	159	n/a	n/a	74.21	n/a	n/a	0.0002871	NP Inter(NDs)
Selenium (mg/L)	n/a	0.006	n/a	n/a	n/a	162	n/a	n/a	92.59	n/a	n/a	0.0002462	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	162	n/a	n/a	100	n/a	n/a	0.0002462	NP Inter(NDs)

PLANT BRANCH POND BCD GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.33	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 1:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**PZ-63I**	**0.0348**	**0.02004**	**0.014**	**Yes**	**6**	**0.02742**	**0.005372**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**BRGWC-32S**	**0.1763**	**0.1016**	**0.05**	**Yes**	**14**	**0.139**	**0.05274**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 1:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.003	0.0007	0.006	No	21	0.00289	0.0005019	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.003	0.0013	0.006	No	21	0.002919	0.000371	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.003	0.0014	0.006	No	21	0.002924	0.0003491	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.003	0.0024	0.006	No	22	0.002547	0.0008329	68.18	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.003	0.00035	0.006	No	22	0.00288	0.000565	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.003	0.00091	0.006	No	21	0.002676	0.0008181	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-68D	0.003	0.00176	0.006	No	4	0.00269	0.00062	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.005	0.00091	0.01	No	21	0.004179	0.001736	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.005	0.0014	0.01	No	21	0.004243	0.001604	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.005	0.0016	0.01	No	21	0.003743	0.001859	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	21	0.004403	0.001313	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.005	0.00053	0.01	No	21	0.004787	0.0009754	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-44	0.005	0.00221	0.01	No	9	0.004579	0.0009479	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.005	0.00225	0.01	No	22	0.00397	0.00176	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.0023	0.001182	0.01	No	22	0.00315	0.001772	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	BRGWC-52I	0.005	0.003	0.01	No	21	0.003913	0.001424	52.38	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-68D	0.006826	0.0001393	0.01	No	4	0.004805	0.0009974	50	Kaplan-Meier	No	0.01	Param.
Barium (mg/L)	BRGWC-25I	0.03348	0.02673	2	No	21	0.0303	0.006413	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01666	0.01518	2	No	21	0.01592	0.001344	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01886	0.017	2	No	21	0.01793	0.001692	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03158	0.02415	2	No	21	0.02787	0.006739	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.03843	0.02484	2	No	21	0.03163	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-44	0.05462	0.04867	2	No	9	0.05164	0.003081	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.08892	0.06937	2	No	22	0.07915	0.01821	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.04055	0.03182	2	No	22	0.03618	0.008132	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02848	0.0183	2	No	21	0.02339	0.009232	0	None	No	0.01	Param.
Barium (mg/L)	PZ-68D	0.1715	0.03694	2	No	4	0.1042	0.02964	0	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-27I	0.0005	0.00011	0.004	No	22	0.0002834	0.0001885	40.91	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.001094	0.0008358	0.004	No	21	0.0009651	0.0002344	4.762	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0005	0.000079	0.004	No	23	0.000462	0.0001261	91.3	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0005	0.000056	0.004	No	22	0.000439	0.0001571	86.36	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-27I	0.001	0.00009	0.005	No	22	0.0009164	0.0002707	90.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.001	0.00014	0.005	No	22	0.0009191	0.000262	90.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-32S	0.001	0.00011	0.005	No	22	0.0008768	0.0003173	86.36	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.001	0.0002	0.005	No	23	0.0008499	0.0003349	82.61	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.001	0.00017	0.005	No	22	0.0006241	0.0004222	54.55	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-25I	0.01	0.0016	0.1	No	21	0.00917	0.002622	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-27I	0.01	0.003	0.1	No	21	0.009238	0.002427	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-29I	0.02	0.01	0.1	No	21	0.01048	0.002182	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-30I	0.014	0.0051	0.1	No	21	0.009957	0.001414	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.01	0.0014	0.1	No	21	0.005652	0.004263	47.62	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.01	0.0014	0.1	No	22	0.00877	0.003172	86.36	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.01	0.0018	0.1	No	22	0.00837	0.003545	81.82	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-52I	0.01	0.0017	0.1	No	21	0.009605	0.001811	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-25I	0.005785	0.003608	0.014	No	21	0.004832	0.002109	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-27I	0.009934	0.007147	0.014	No	22	0.008541	0.002596	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-29I	0.009419	0.006747	0.014	No	21	0.008083	0.002422	4.762	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-30I	0.00163	0.001	0.014	No	22	0.0038	0.006598	13.64	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.0025	0.001	0.014	No	22	0.001068	0.0003198	90.91	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-44	0.001	0.000408	0.014	No	9	0.0009342	0.0001973	88.89	Kaplan-Meier	No	0.002	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01111	0.004672	0.014	No	23	0.0106	0.01364	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.001434	0.000455	0.014	No	22	0.001933	0.00284	31.82	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-52I	0.0012	0.00063	0.014	No	21	0.001249	0.0009195	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	**PZ-63I**	**0.0348**	**0.02004**	**0.014**	**Yes**	**6**	**0.02742**	**0.005372**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-68D	0.001315	0.0003166	0.014	No	4	0.0008158	0.0002199	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-25I	2.104	0.7511	5	No	21	1.609	1.542	0	None	sqrt(x)	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 1:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BRGWC-27I	1.671	0.7732	5	No	21	1.222	0.8135	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-29I	1.999	1.309	5	No	21	1.654	0.6257	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-30I	1.901	0.7981	5	No	21	1.475	1.145	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.257	0.5561	5	No	21	0.9067	0.6356	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-44	2.315	0.3329	5	No	9	1.322	1.135	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	0.9907	0.4847	5	No	22	0.7377	0.4713	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.93	0.9463	5	No	22	1.438	0.916	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-52I	3.627	1.662	5	No	21	3.263	3.193	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-68D	5.43	1.62	5	No	4	3.343	1.769	0	None	No	0.0625	NP (selected)
Fluoride (mg/L)	BRGWC-25I	0.245	0.151	4	No	22	0.2144	0.1206	4.545	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-27I	0.2674	0.1768	4	No	22	0.2221	0.08435	9.091	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-29I	0.186	0.09624	4	No	22	0.1628	0.1143	9.091	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-30I	0.3169	0.1458	4	No	22	0.2503	0.1968	4.545	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.09	4	No	22	0.1057	0.04431	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-44	0.2142	0.09695	4	No	9	0.1877	0.08533	22.22	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BRGWC-45	0.163	0.078	4	No	23	0.1697	0.2103	43.48	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.2194	0.09107	4	No	23	0.2654	0.2163	47.83	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-52I	0.2194	0.1376	4	No	21	0.1785	0.07413	4.762	None	No	0.01	Param.
Fluoride (mg/L)	PZ-68D	0.2776	0.08289	4	No	4	0.1803	0.04288	0	None	No	0.01	Param.
Lead (mg/L)	BRGWC-25I	0.002	0.00011	0.015	No	21	0.00191	0.0004124	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.002	0.000063	0.015	No	21	0.001908	0.0004227	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.002	0.0003	0.015	No	20	0.0009455	0.0007996	35	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-30I	0.002	0.00011	0.015	No	21	0.00191	0.0004124	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.002	0.000595	0.015	No	22	0.001687	0.0006847	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.002	0.00012	0.015	No	22	0.001738	0.0006752	86.36	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.002	0.000042	0.015	No	21	0.001907	0.0004273	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-68D	0.002	0.000504	0.015	No	4	0.001626	0.000748	75	None	No	0.0625	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.01	0.0014	0.089	No	21	0.004324	0.004119	33.33	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-29I	0.003547	0.003078	0.089	No	21	0.003312	0.0004253	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.02116	0.01379	0.089	No	21	0.01748	0.006679	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.00514	0.0021	0.089	No	21	0.005127	0.006762	9.524	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-44	0.006541	0.004827	0.089	No	9	0.005684	0.0008877	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-45	0.0043	0.003	0.089	No	21	0.004506	0.002767	19.05	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-47	0.04572	0.04152	0.089	No	22	0.04362	0.003917	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.01004	0.004285	0.089	No	21	0.007803	0.006125	4.762	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	PZ-68D	0.01096	0.001513	0.089	No	4	0.006238	0.002081	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.0002	0.000083	0.002	No	19	0.0001854	0.00004425	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.0002	0.00005	0.002	No	19	0.0001841	0.00004777	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.00078	0.000098	0.002	No	19	0.0002099	0.0001467	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.0002	0.000082	0.002	No	19	0.0001785	0.00005146	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.0002	0.0001	0.002	No	19	0.0001827	0.00004107	84.21	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.001	0.1	No	20	0.00553	0.004588	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BRGWC-27I	0.001	0.000213	0.1	No	20	0.0009212	0.0002425	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.00123	0.1	No	20	0.006085	0.004448	55	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.000207	0.0002	0.1	No	21	0.0002615	0.0001462	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	21	0.007685	0.004243	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.0007	0.1	No	20	0.004976	0.004179	35	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-68D	0.0134	0.003249	0.1	No	4	0.007588	0.002383	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-25I	0.005	0.0021	0.05	No	21	0.004862	0.0006328	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.005	0.0031	0.05	No	21	0.004062	0.001209	47.62	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0042	0.05	No	21	0.004733	0.001331	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.005	0.0045	0.05	No	21	0.00469	0.0007899	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	**BRGWC-32S**	**0.1763**	**0.1016**	**0.05**	**Yes**	**14**	**0.139**	**0.05274**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	BRGWC-45	0.005	0.0029	0.05	No	22	0.004905	0.0004477	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.005	0.0028	0.05	No	22	0.004164	0.001417	72.73	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-29I	0.002	0.00017	0.002	No	21	0.0008724	0.0009065	38.1	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 2:03 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0004853**	**-113**	**-66**	**Yes**	**21**	**28.57**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002793**	**-150**	**-66**	**Yes**	**21**	**9.524**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009113**	**-89**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-63I**	**0.005376**	**13**	**12**	**Yes**	**6**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**BRGWC-32S**	**0.02939**	**41**	**37**	**Yes**	**14**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 2:03 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0004853**	**-113**	**-66**	**Yes**	**21**	**28.57**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-64	-66	No	21	57.14	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002793**	**-150**	**-66**	**Yes**	**21**	**9.524**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009113**	**-89**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	25	66	No	21	71.43	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	21	66	No	21	76.19	n/a	0.05	NP
Cobalt (mg/L)	**PZ-63I**	**0.005376**	**13**	**12**	**Yes**	**6**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	0	-6	-66	No	21	42.86	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2I (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	**BRGWC-32S**	**0.02939**	**41**	**37**	**Yes**	**14**	**0**	**n/a**	**0.05**	**NP**

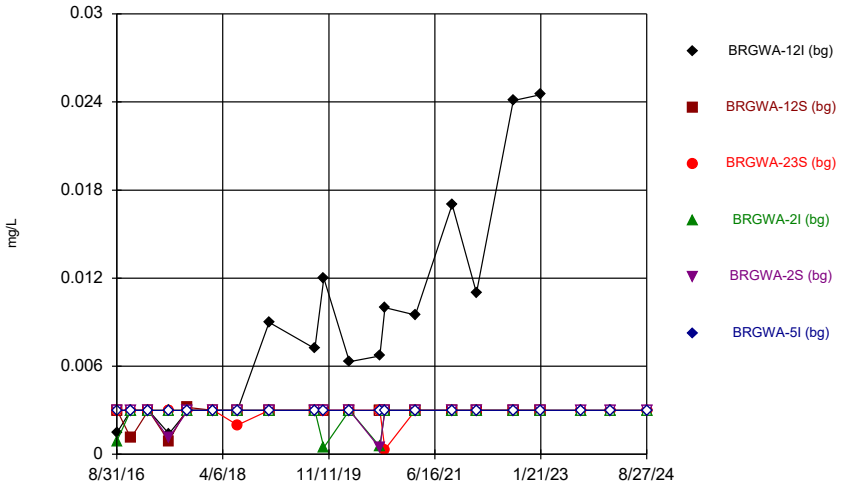
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FIGURE A.

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Hollow symbols indicate censored values.

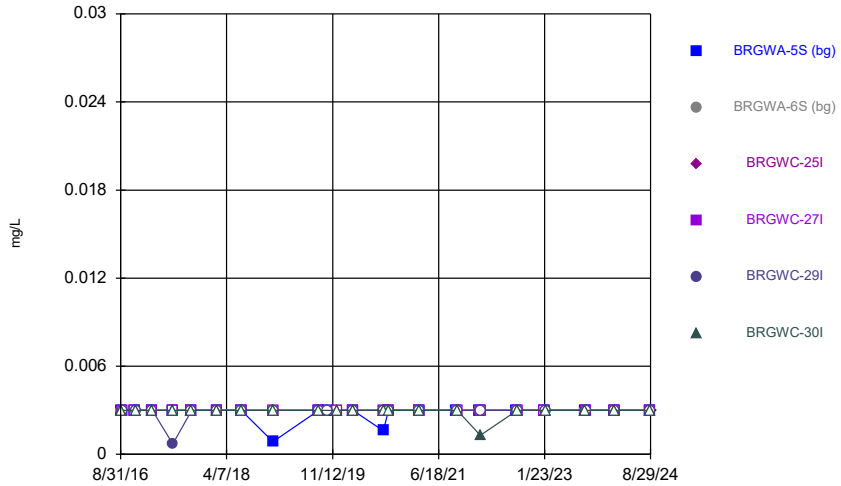
Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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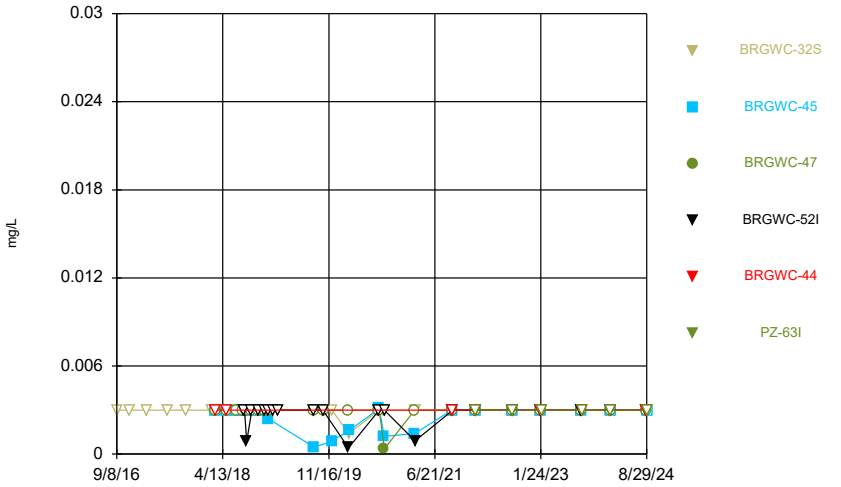
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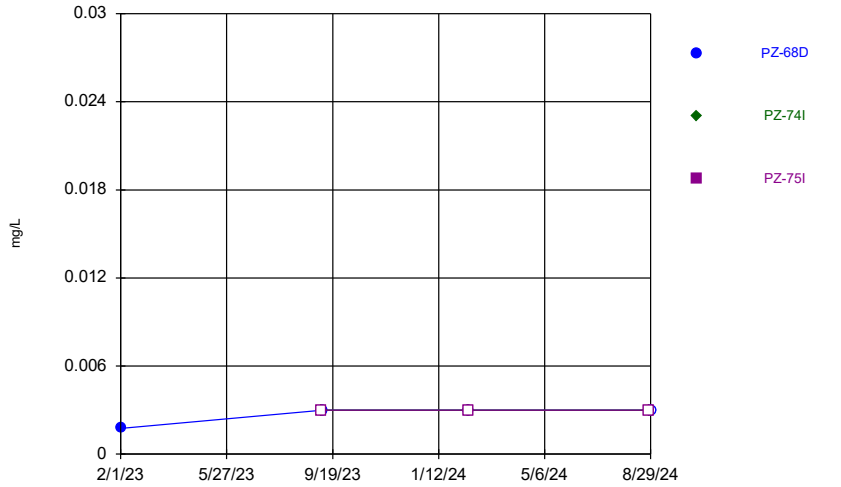
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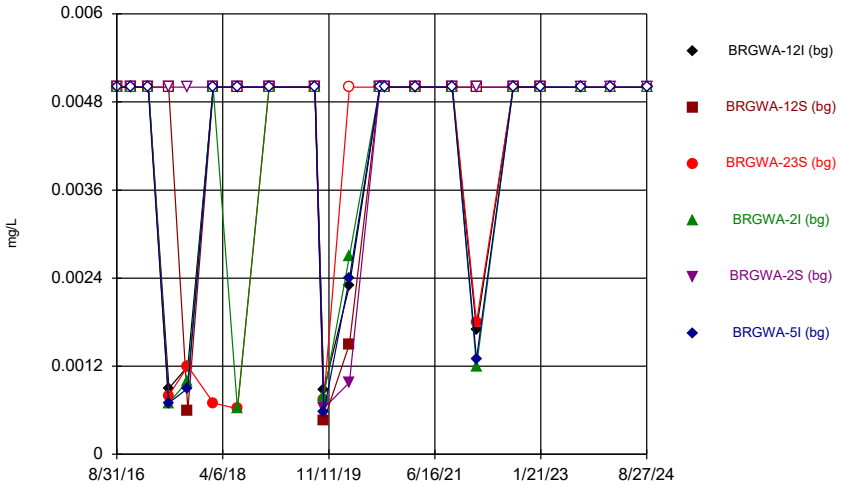
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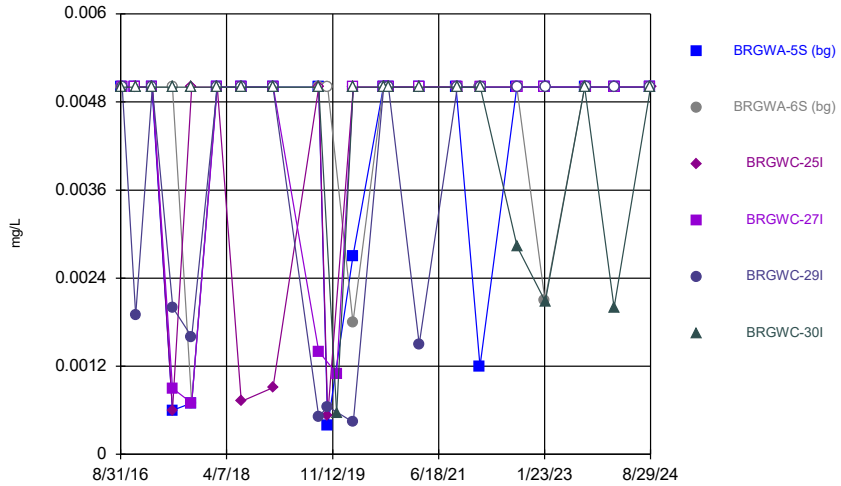
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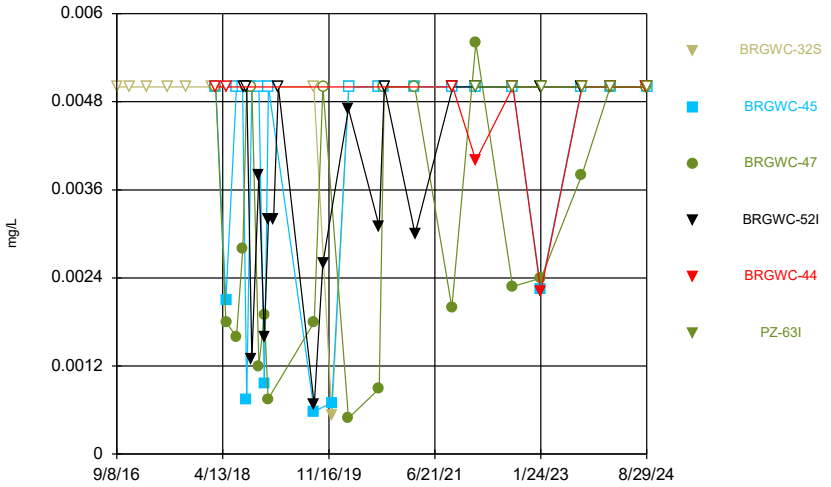
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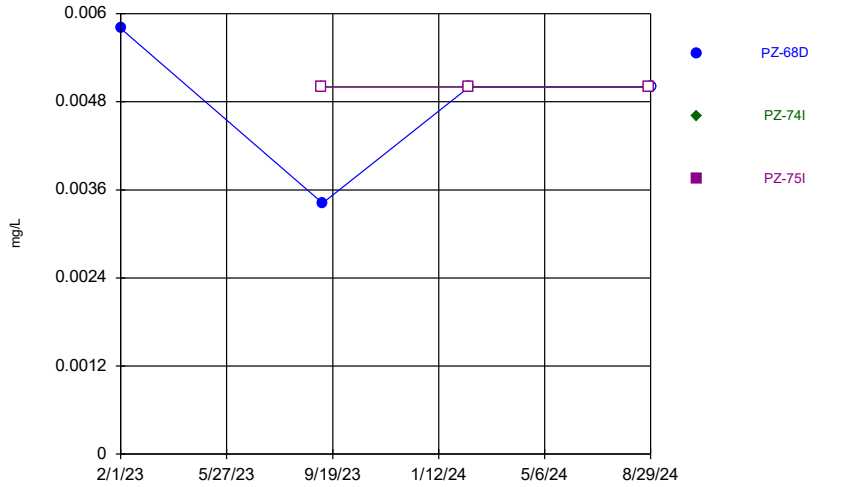
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Plant Branch Client: Southern Company Data: Plant Branch AP

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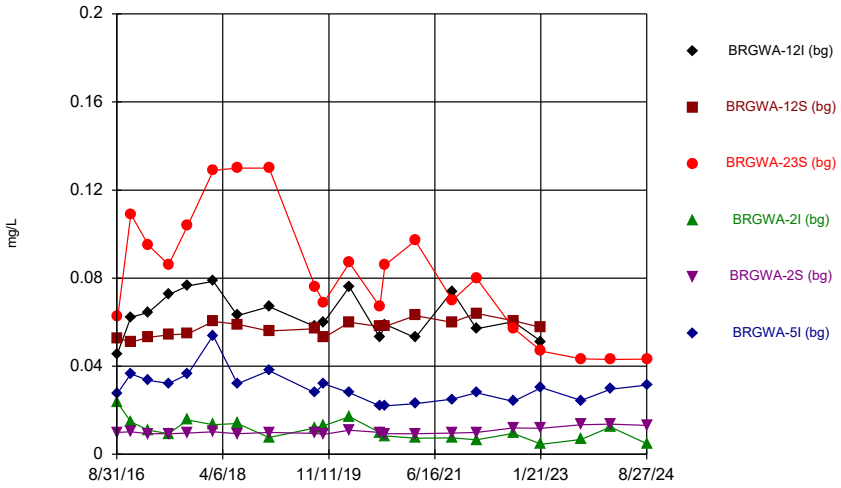
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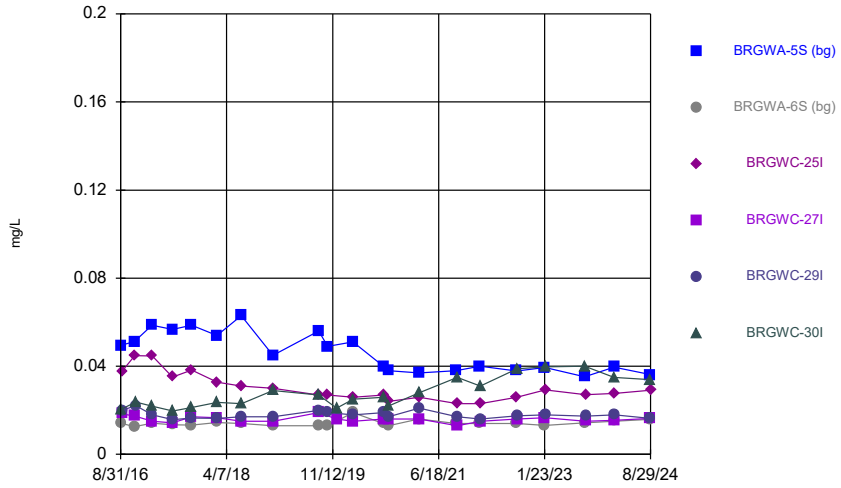
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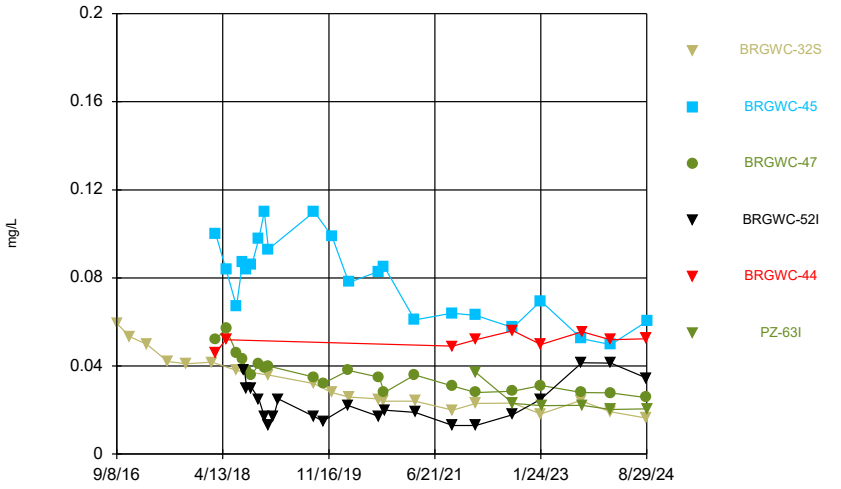
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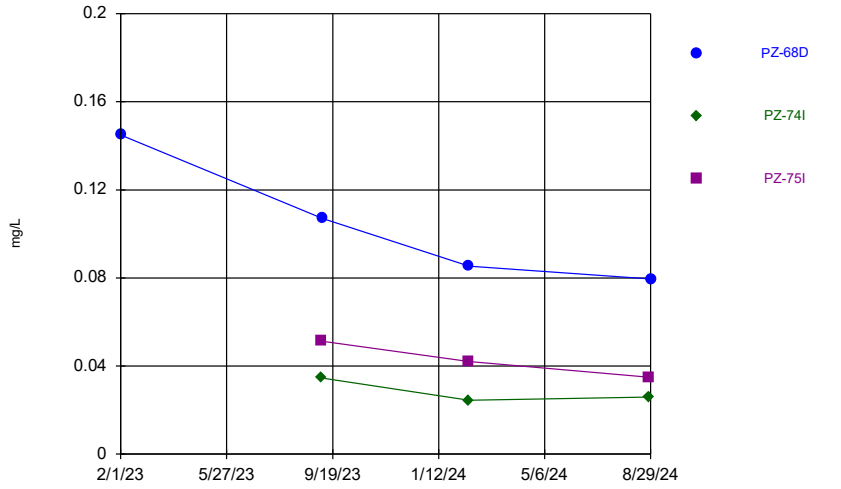
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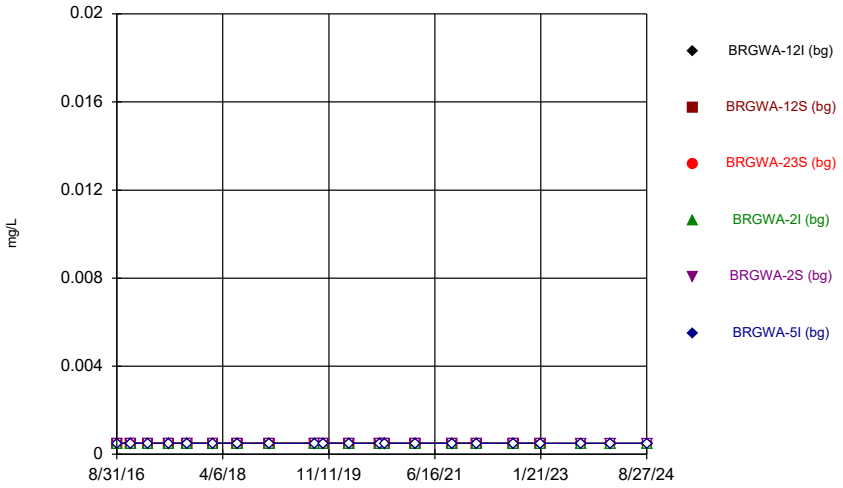
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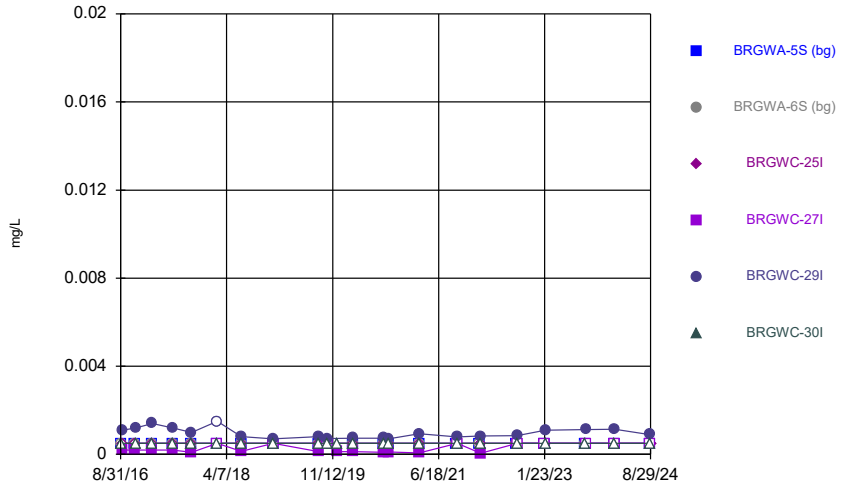
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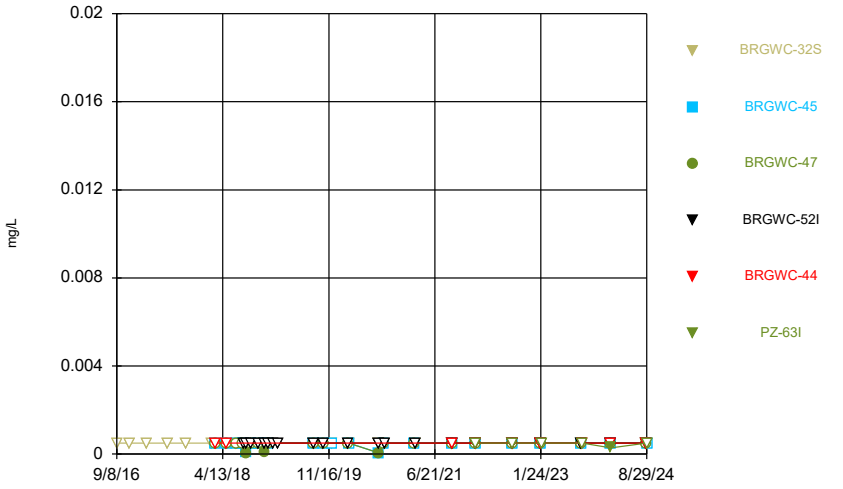
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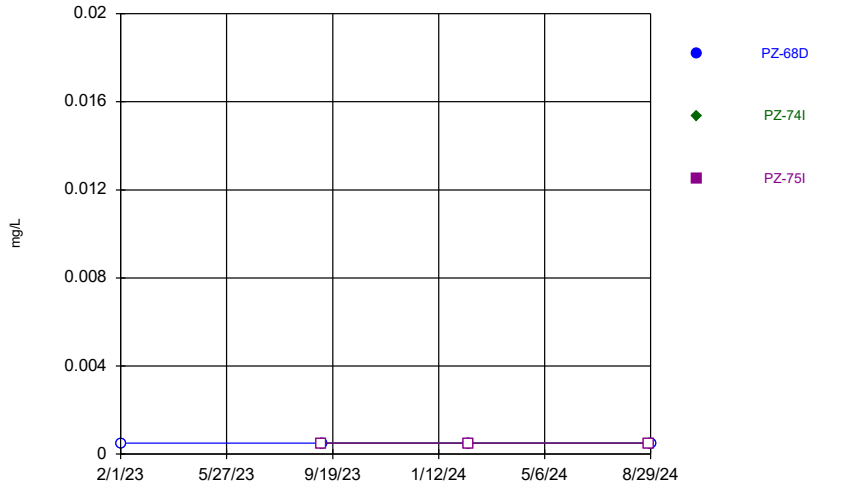
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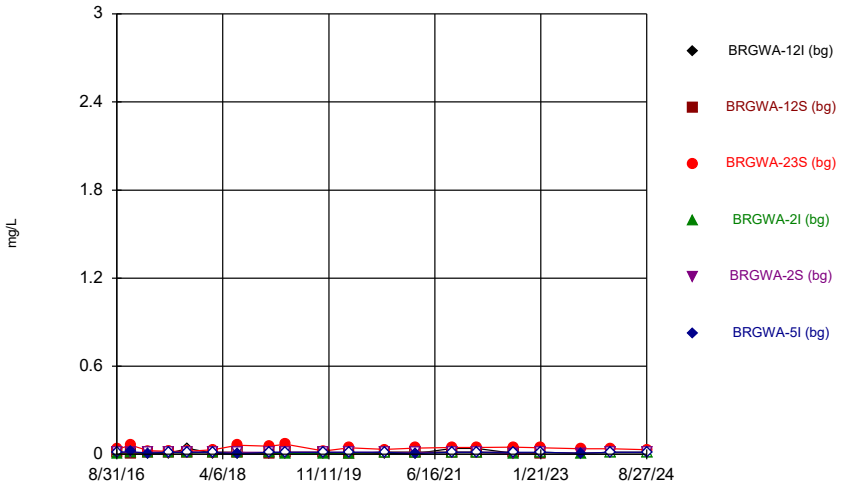
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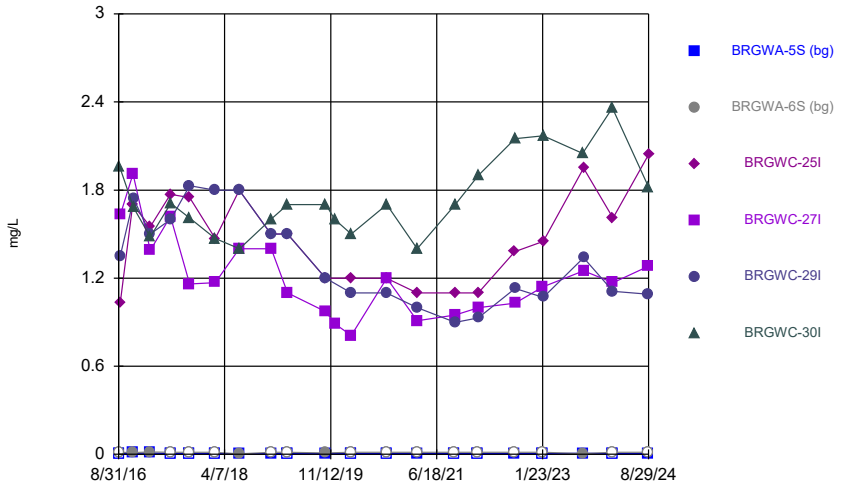
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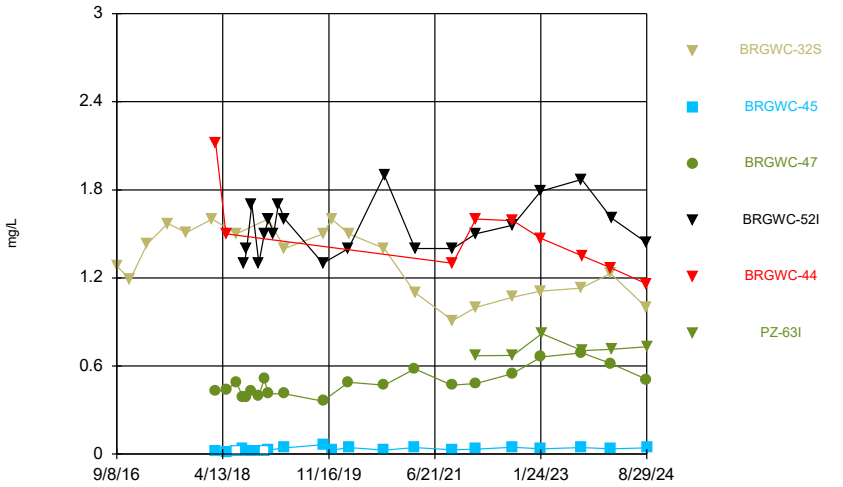
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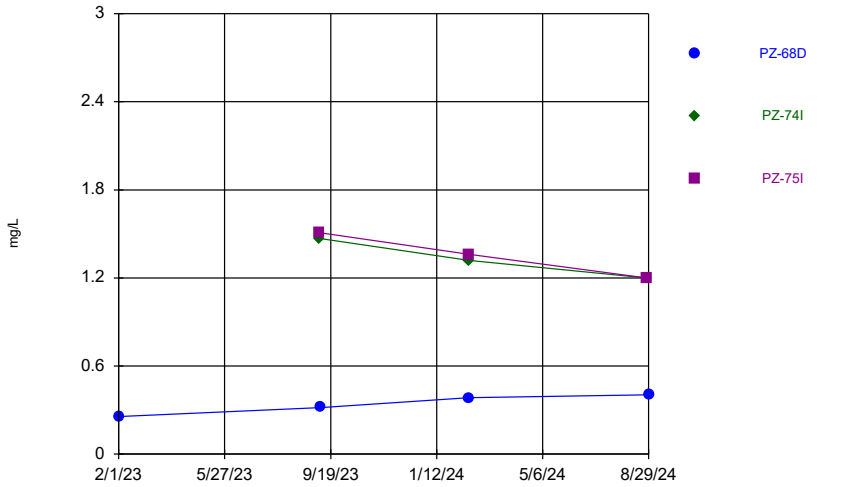
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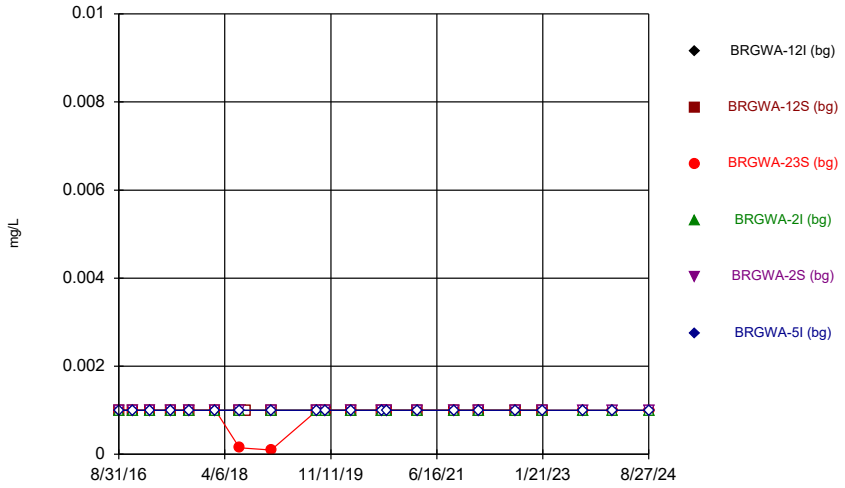
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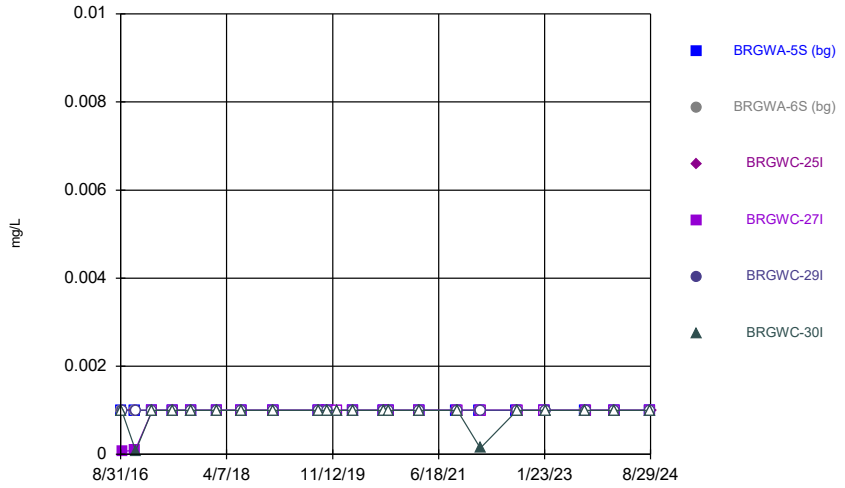
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Plant Branch Client: Southern Company Data: Plant Branch AP

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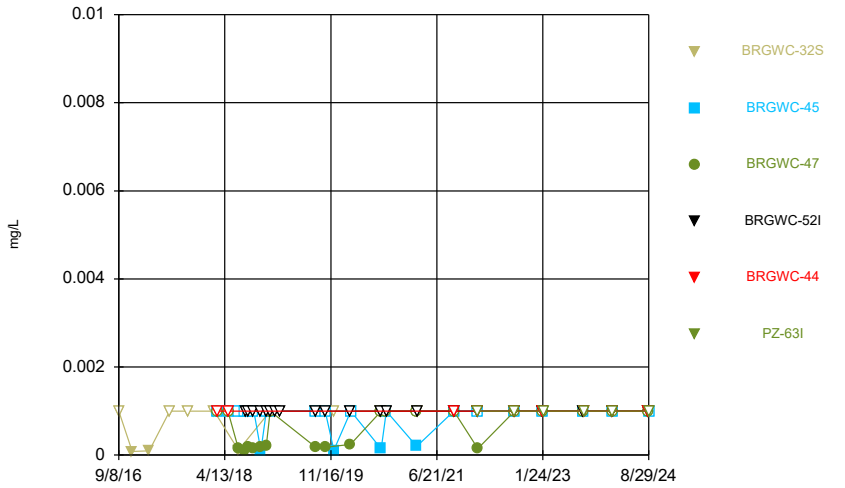
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Plant Branch Client: Southern Company Data: Plant Branch AP

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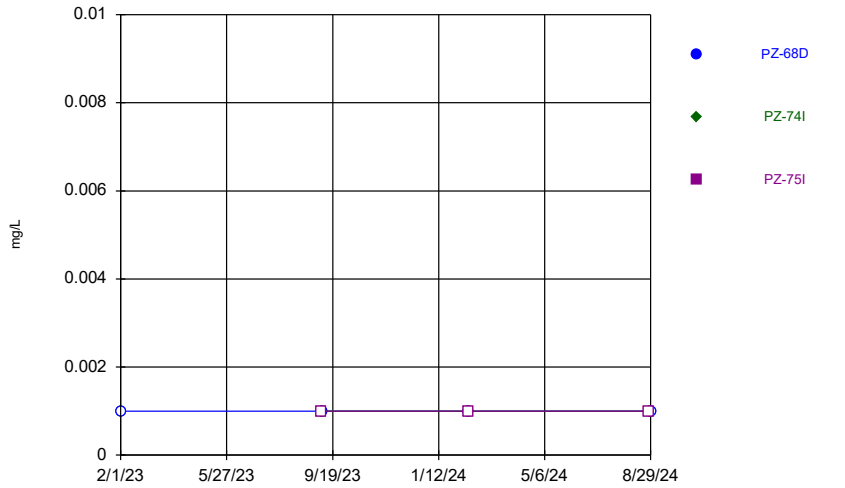
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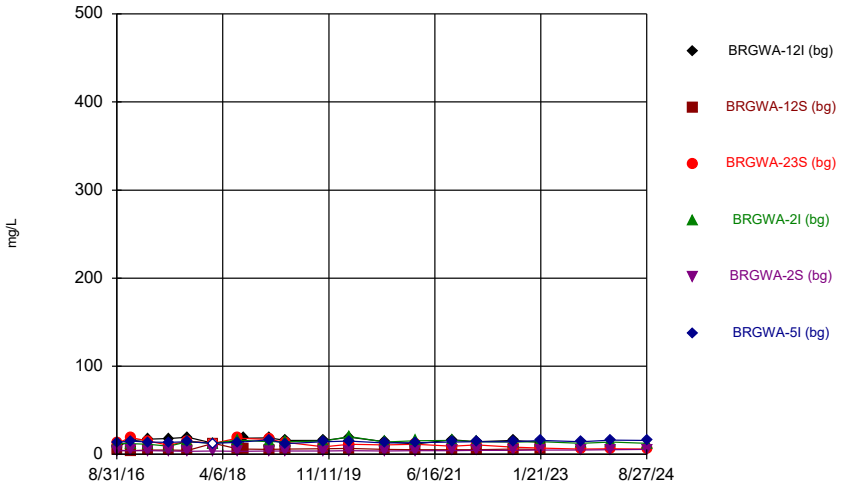
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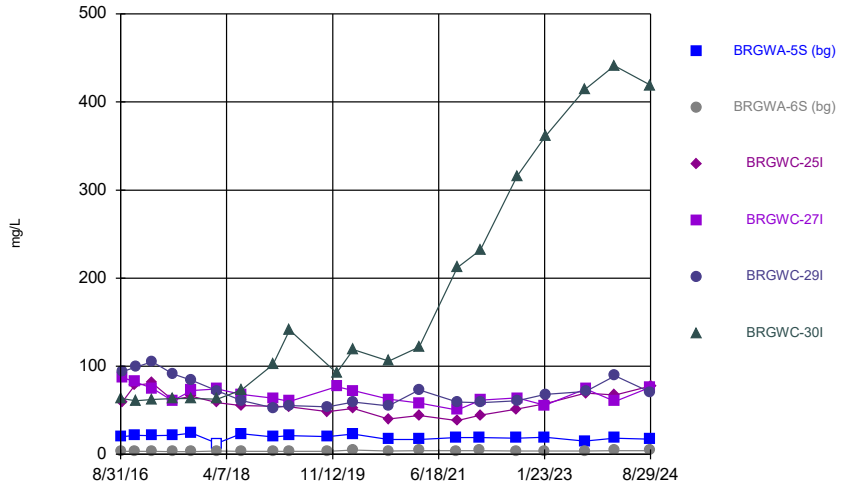
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Plant Branch Client: Southern Company Data: Plant Branch AP

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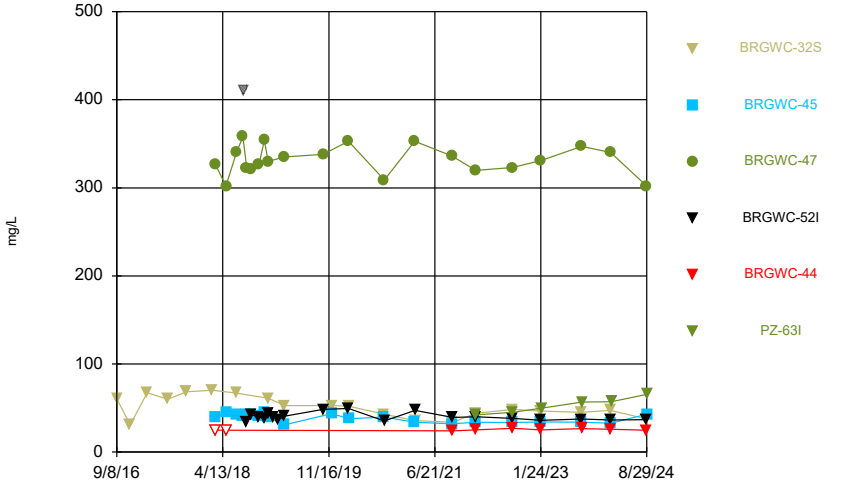
Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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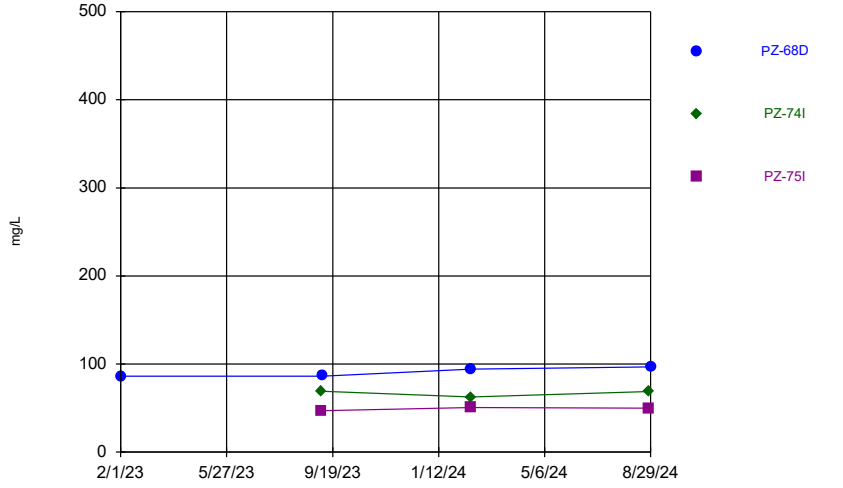
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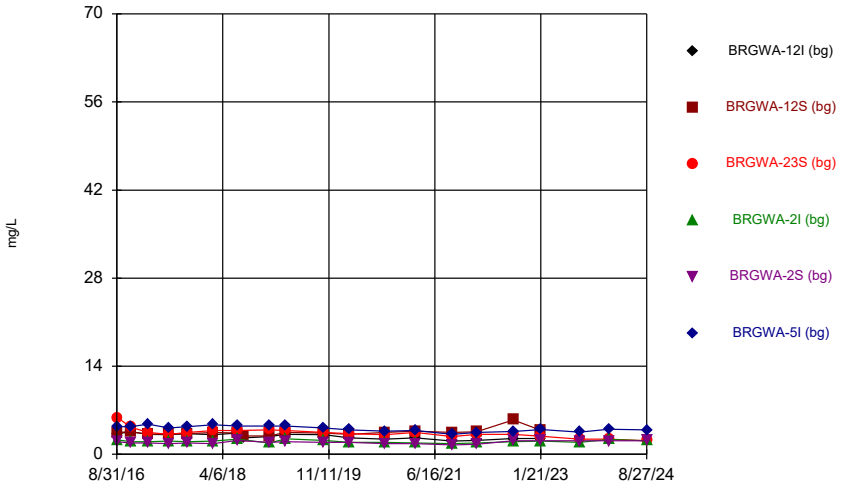
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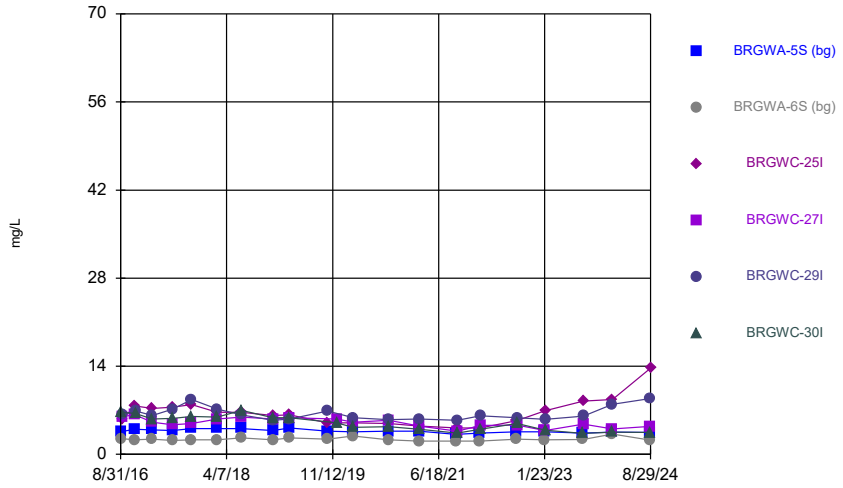
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Plant Branch Client: Southern Company Data: Plant Branch AP

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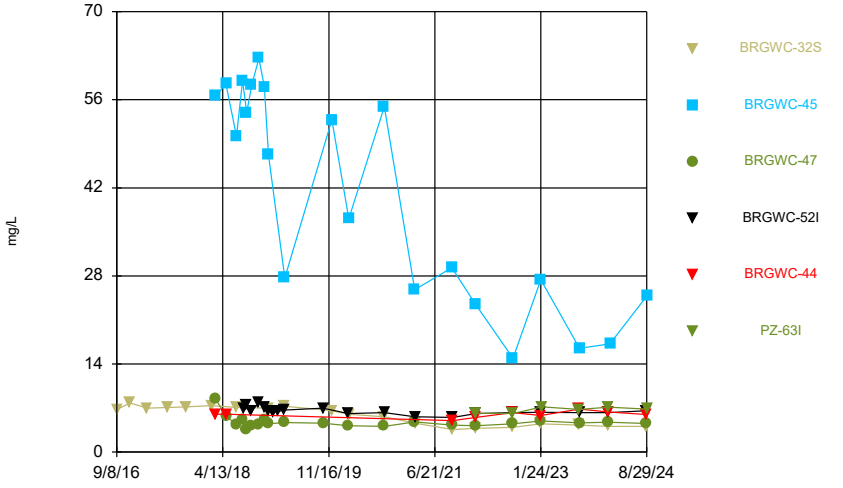
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Plant Branch Client: Southern Company Data: Plant Branch AP

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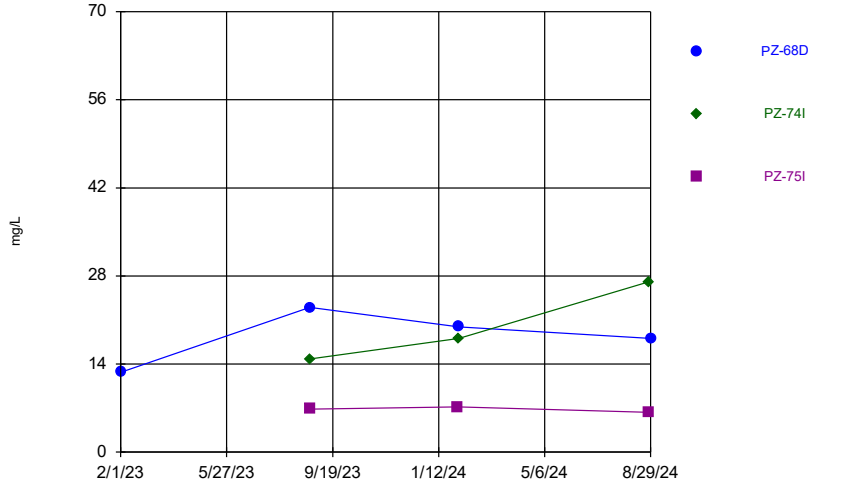
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Plant Branch Client: Southern Company Data: Plant Branch AP

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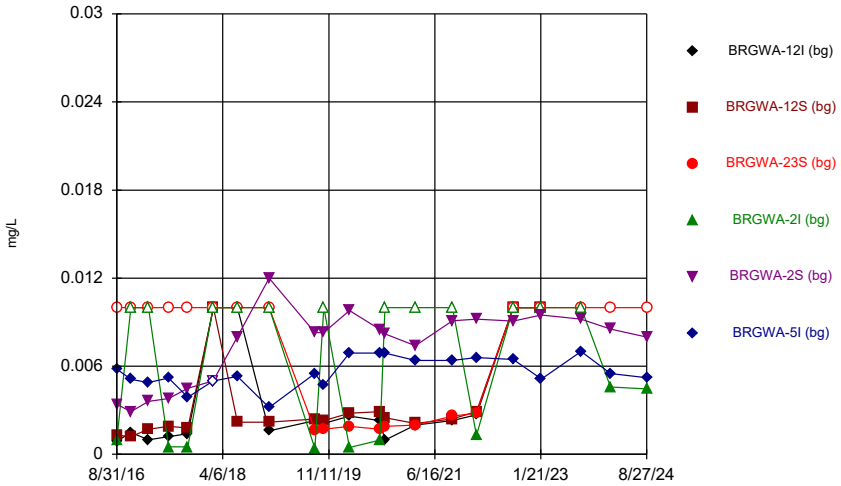
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Plant Branch Client: Southern Company Data: Plant Branch AP

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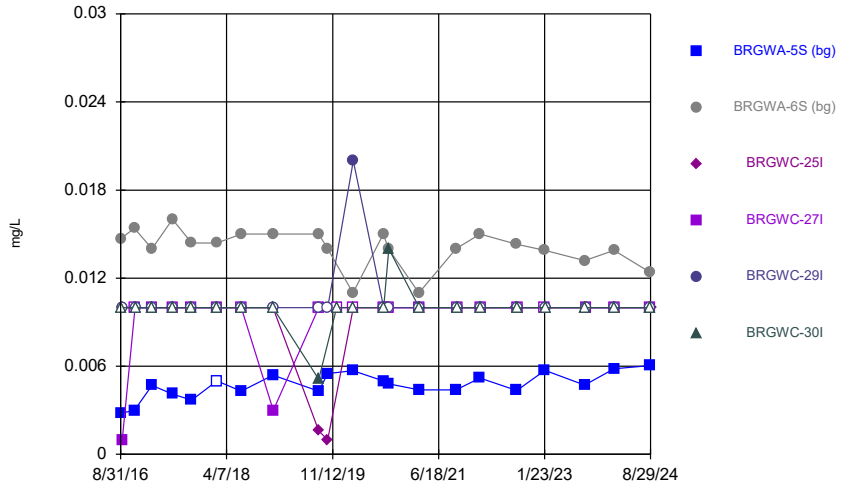
Time Series



Constituent: Chromium Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

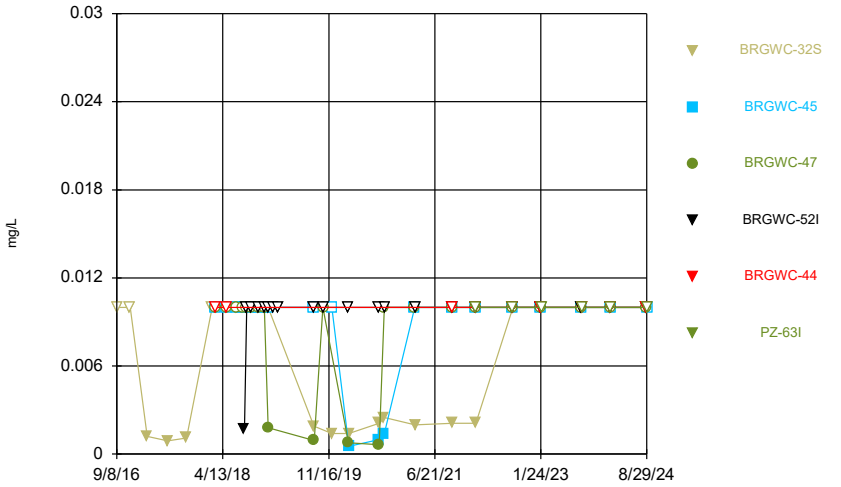
Time Series



Constituent: Chromium Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

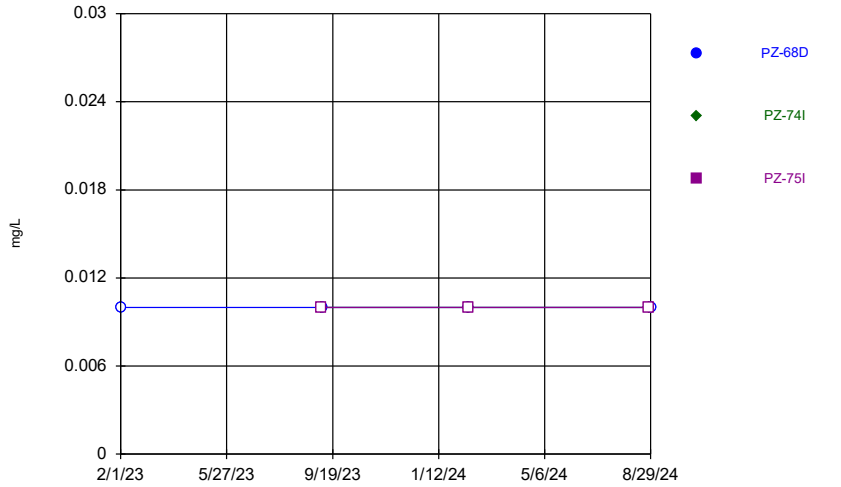
Time Series



Constituent: Chromium Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

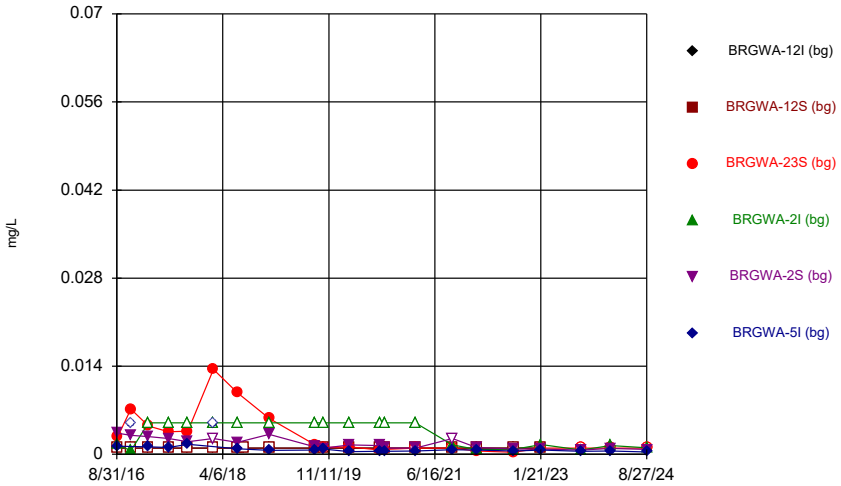
Time Series



Constituent: Chromium Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

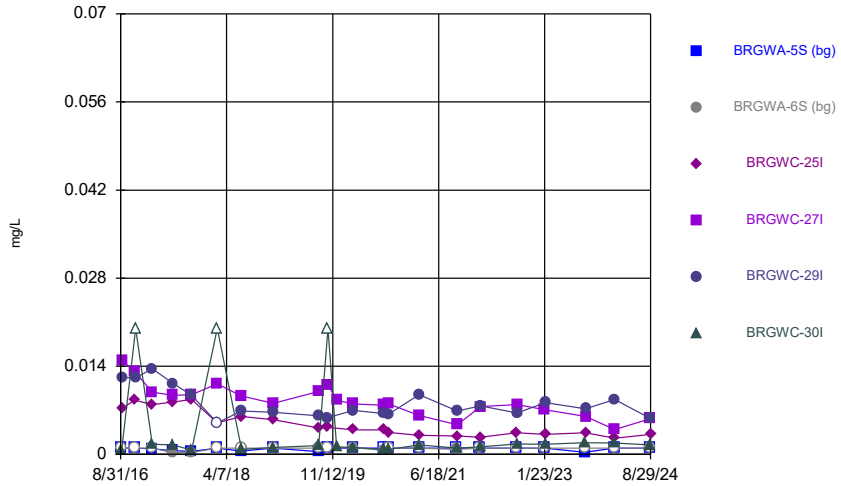
Time Series



Constituent: Cobalt Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

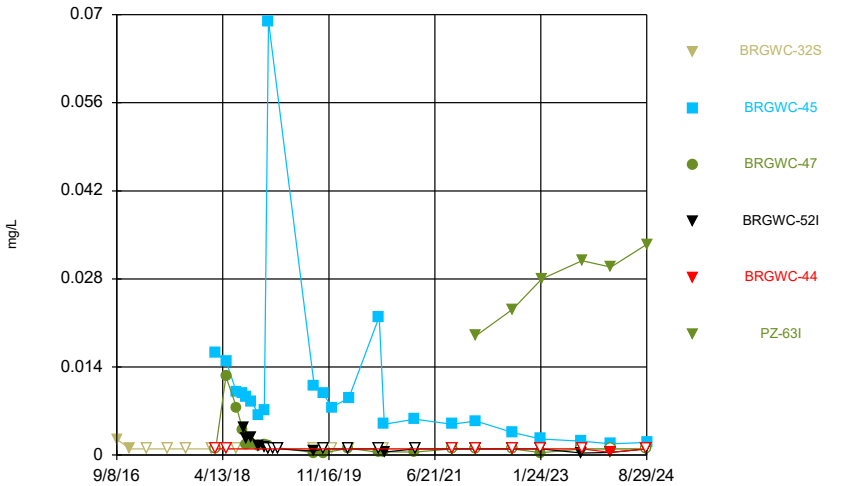
Time Series



Constituent: Cobalt Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

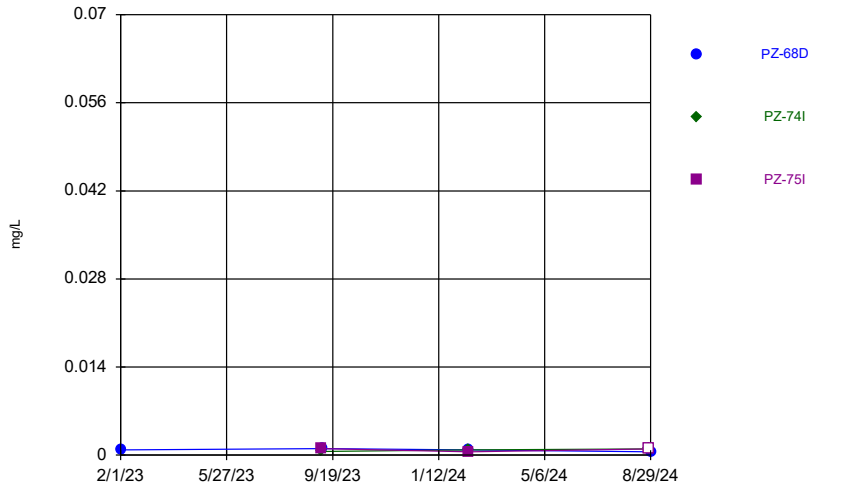
Time Series



Constituent: Cobalt Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

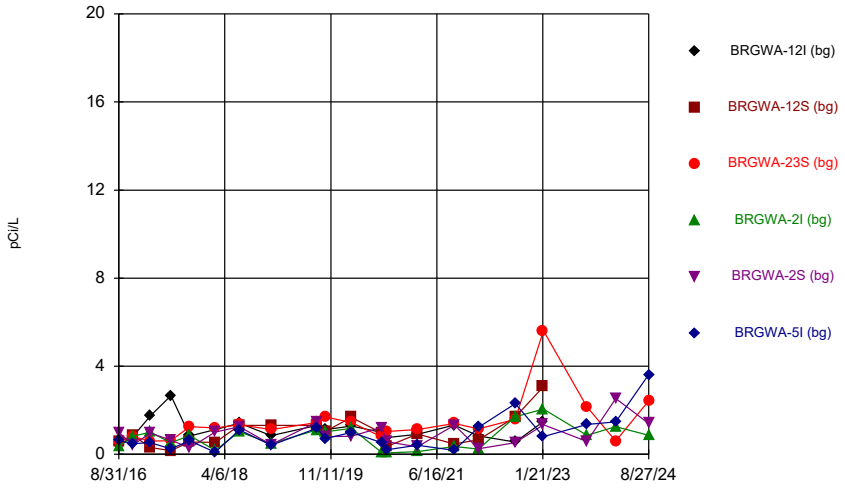
Time Series



Constituent: Cobalt Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

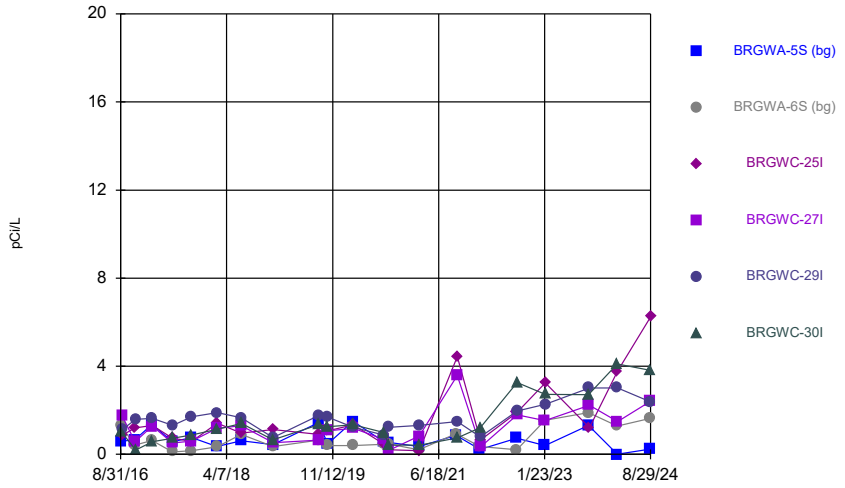
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

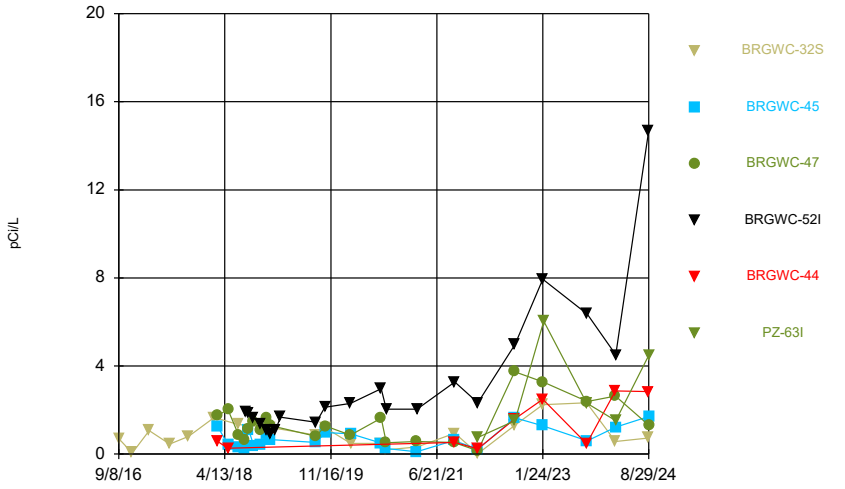
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2025 10:43 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

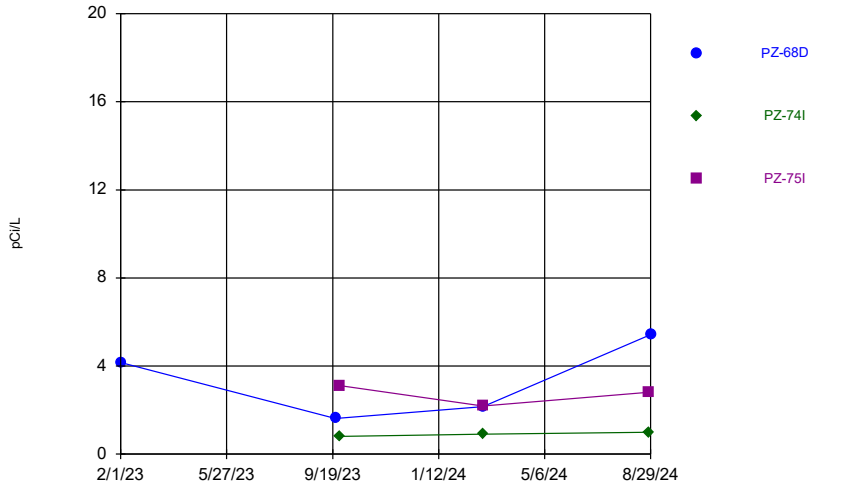
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

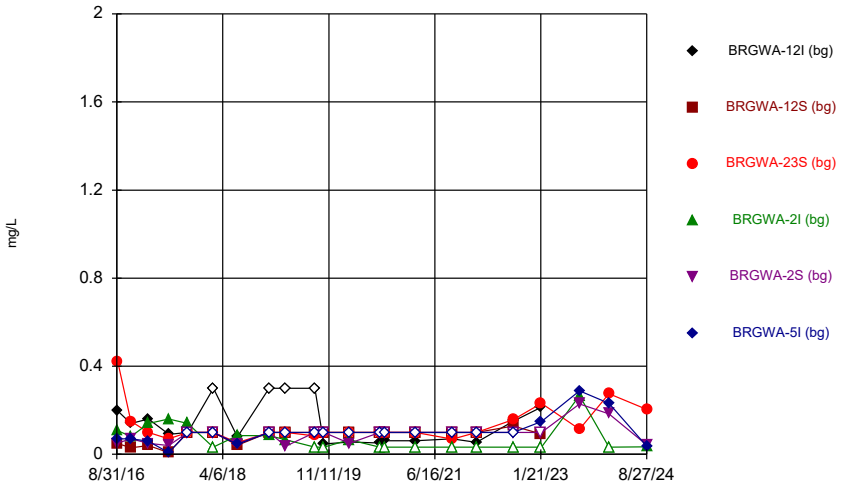
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

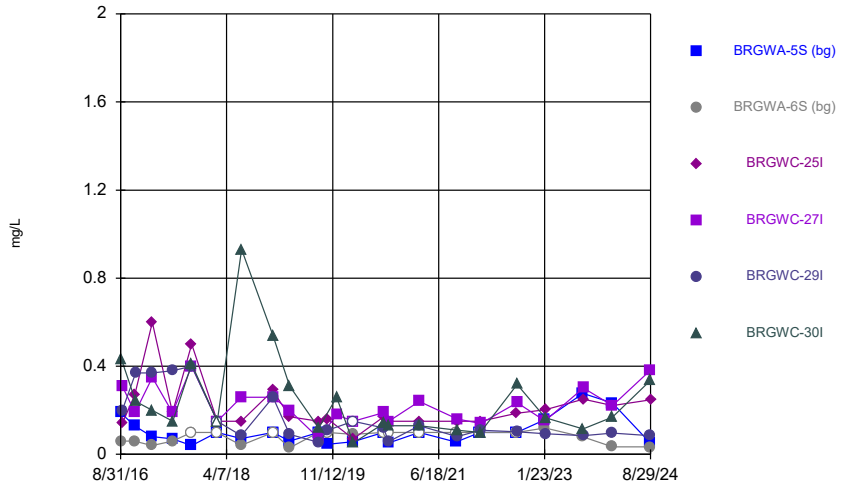
Time Series



Constituent: Fluoride Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

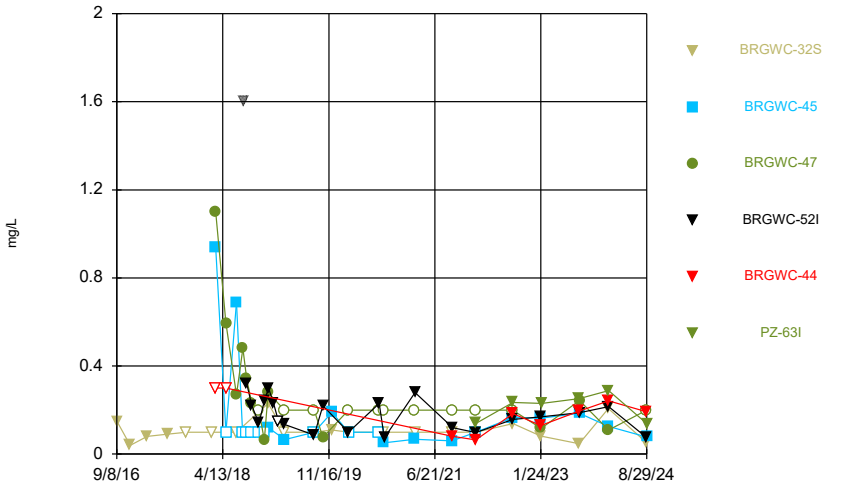
Time Series



Constituent: Fluoride Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

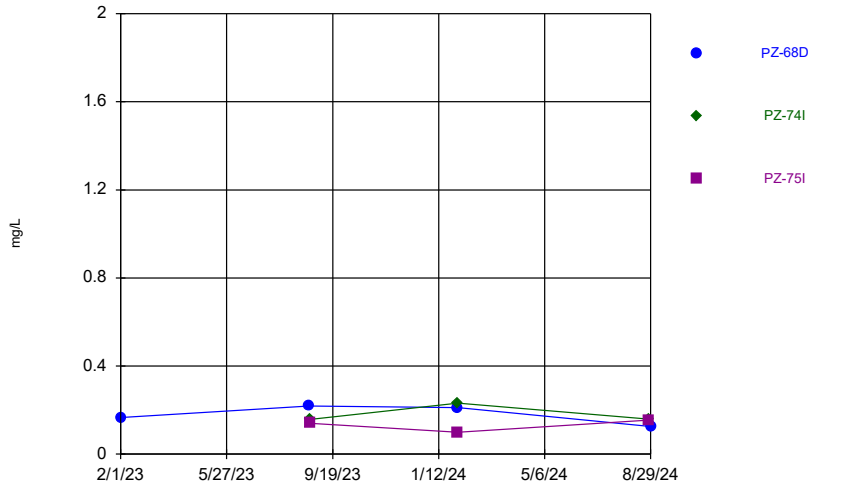
Time Series



Constituent: Fluoride Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

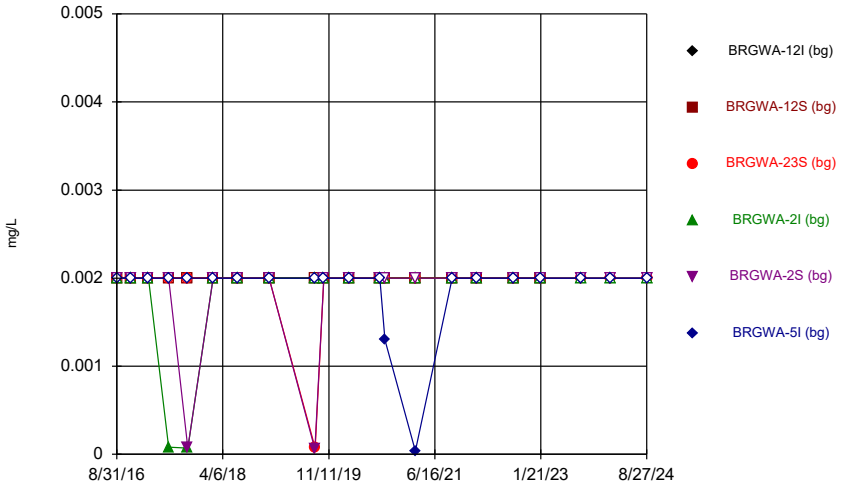
Time Series



Constituent: Fluoride Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
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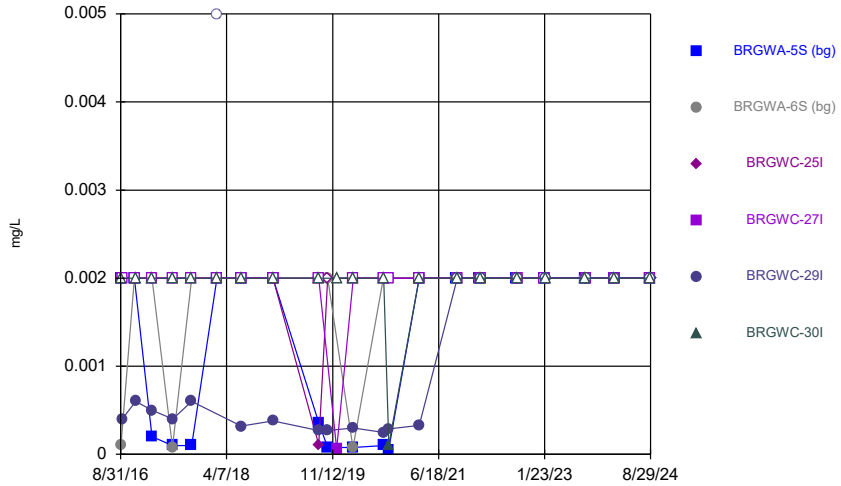
Time Series



Constituent: Lead Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

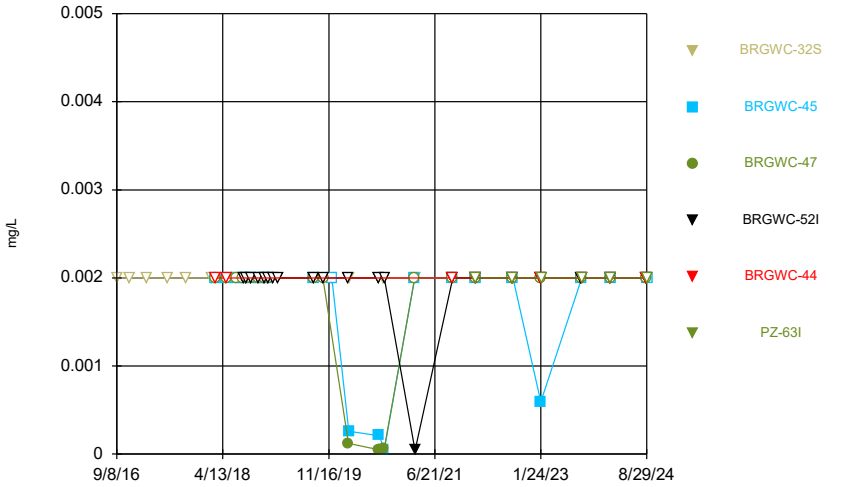
Time Series



Constituent: Lead Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

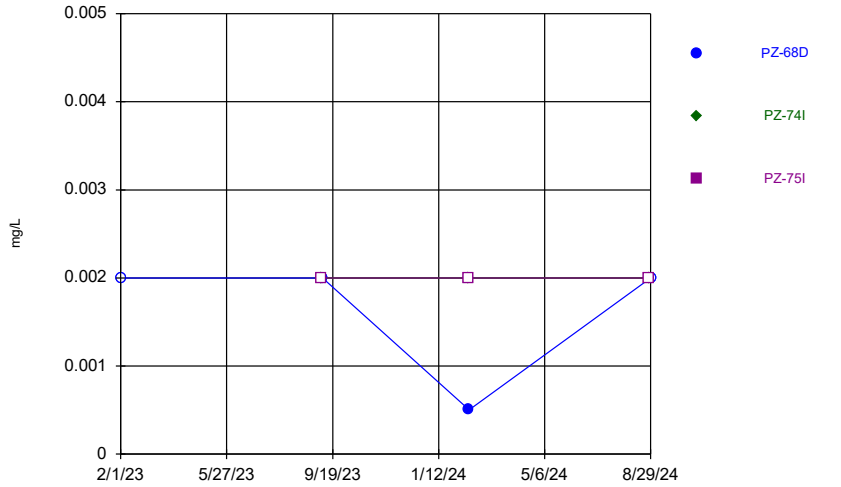
Time Series



Constituent: Lead Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
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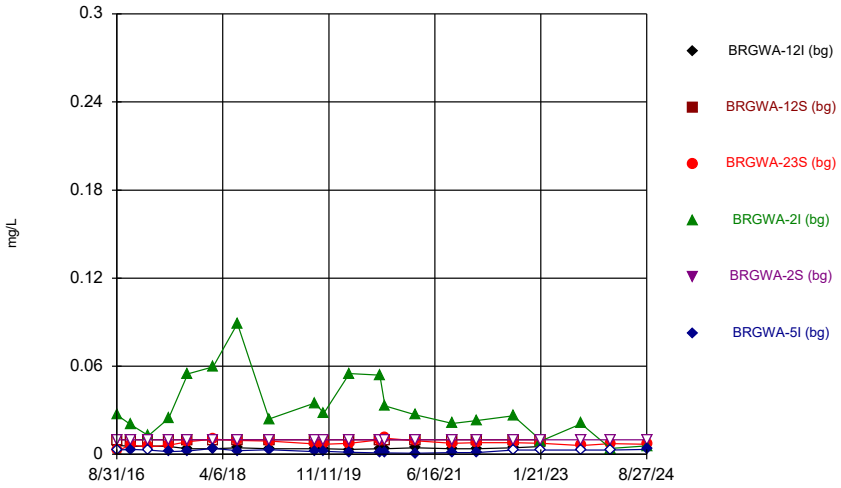
Time Series



Constituent: Lead Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
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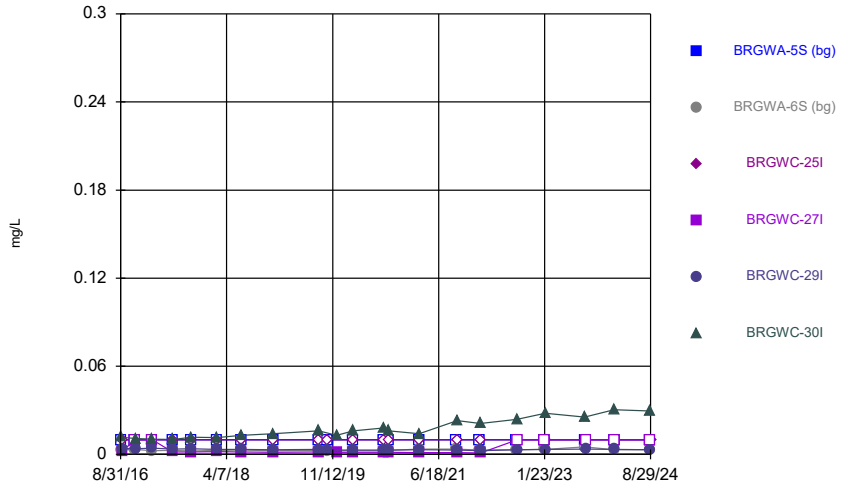
Time Series



Constituent: Lithium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

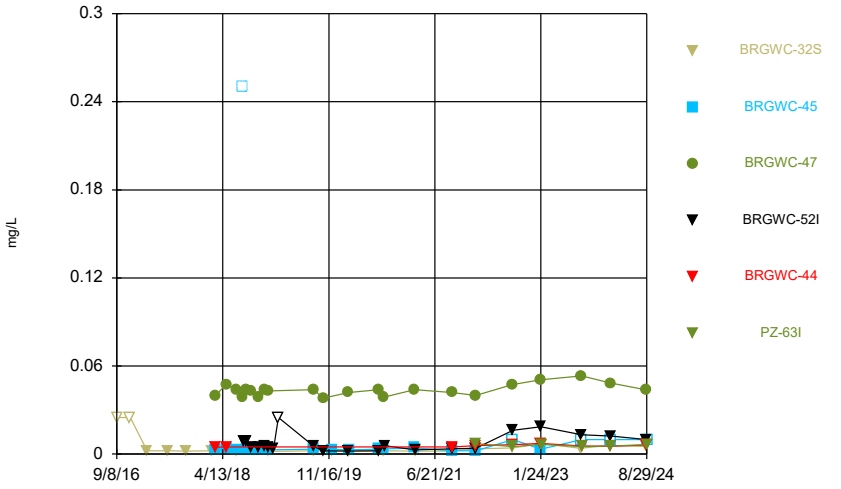
Time Series



Constituent: Lithium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

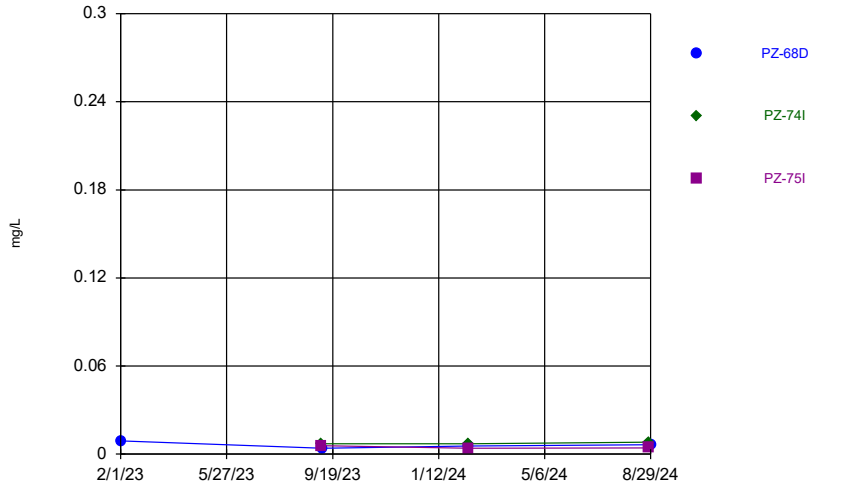
Time Series



Constituent: Lithium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

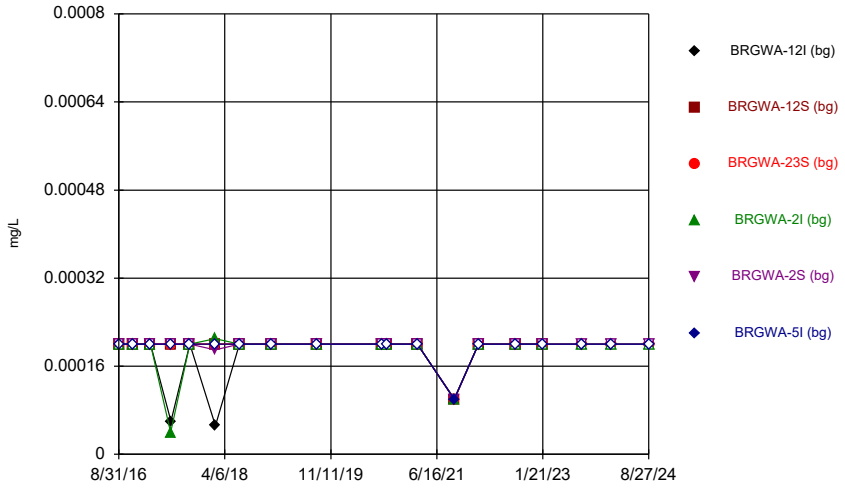
Time Series



Constituent: Lithium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

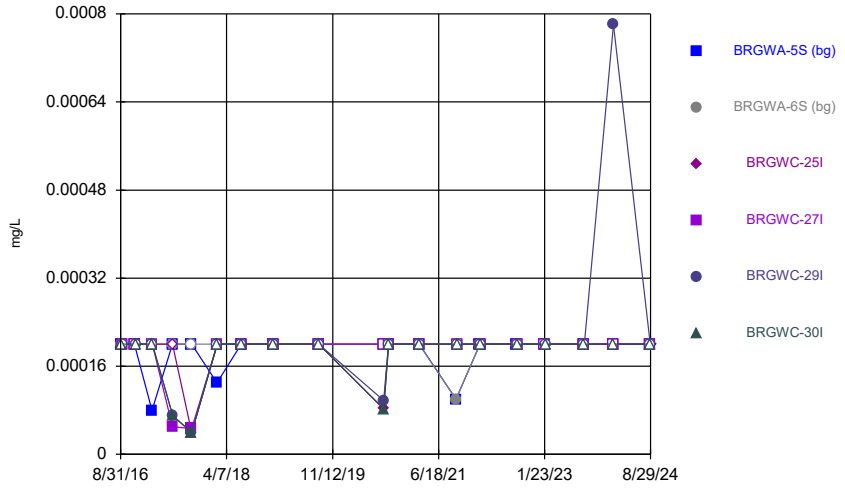
Time Series



Constituent: Mercury Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

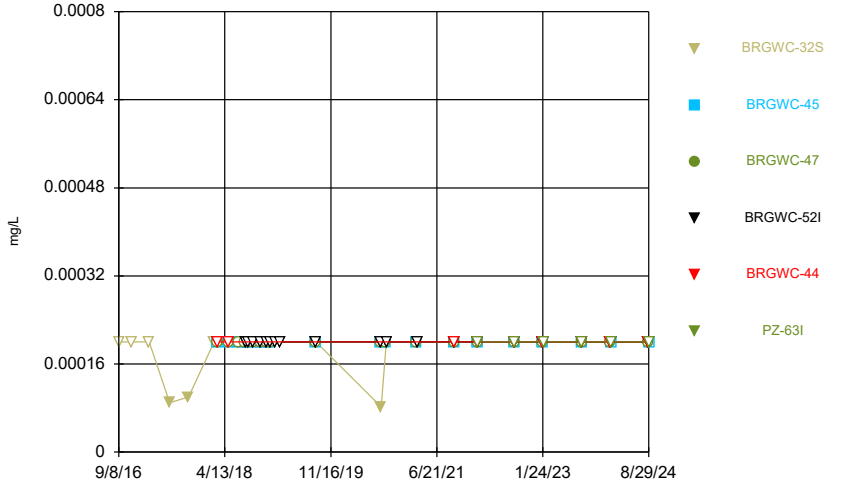
Time Series



Constituent: Mercury Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

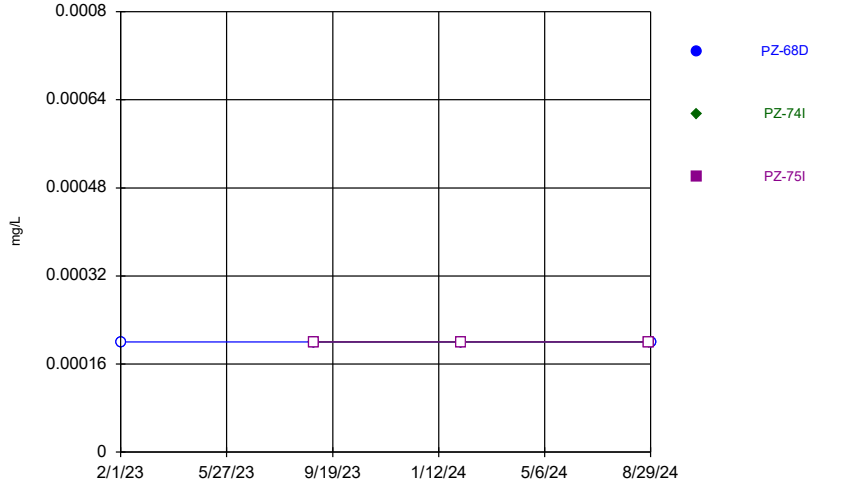
Time Series



Constituent: Mercury Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

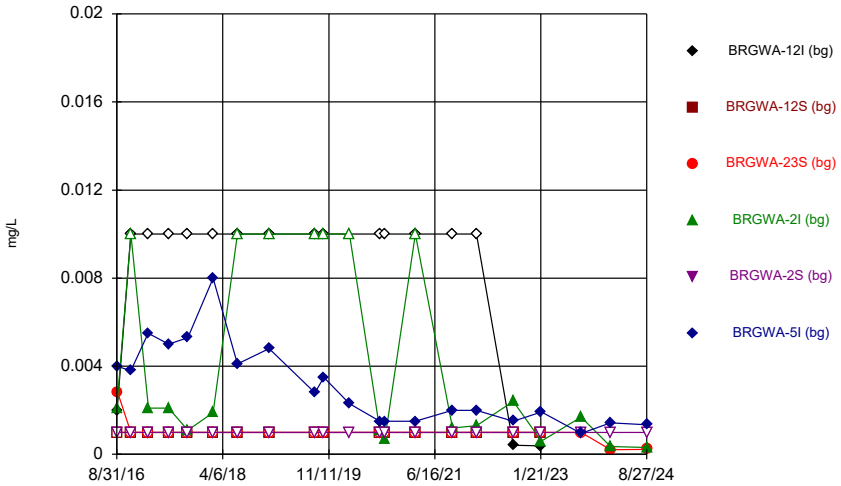
Time Series



Constituent: Mercury Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
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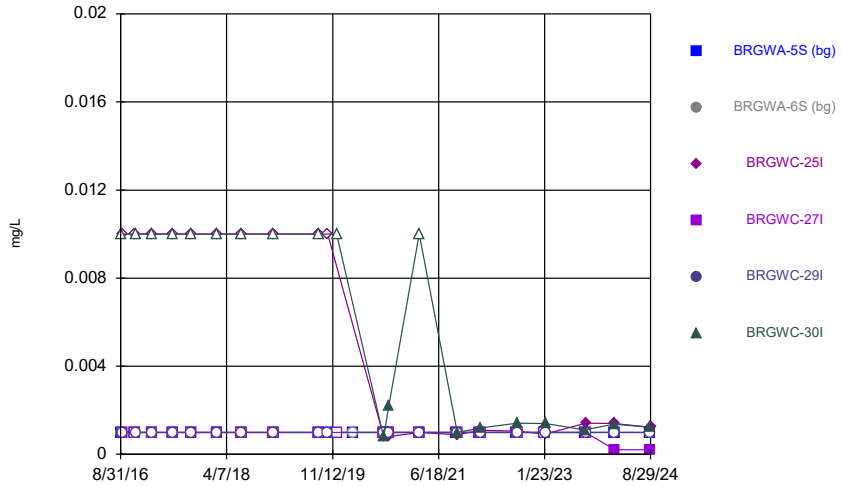
Time Series



Constituent: Molybdenum Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

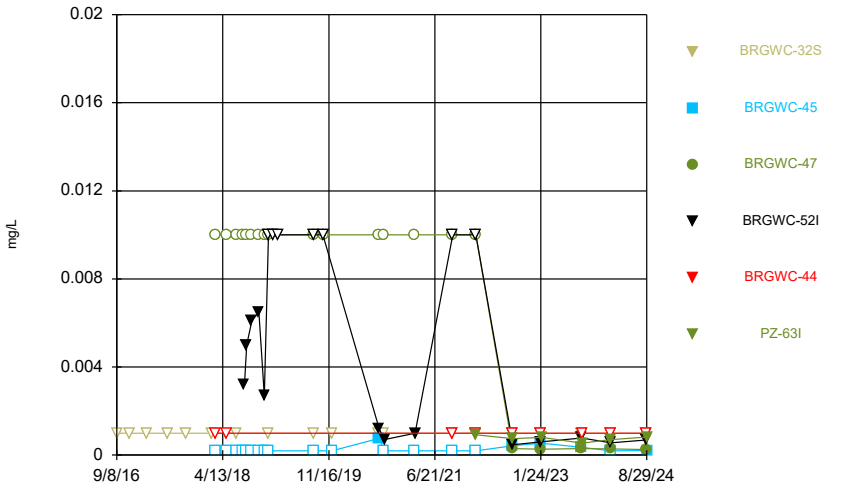
Time Series



Constituent: Molybdenum Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
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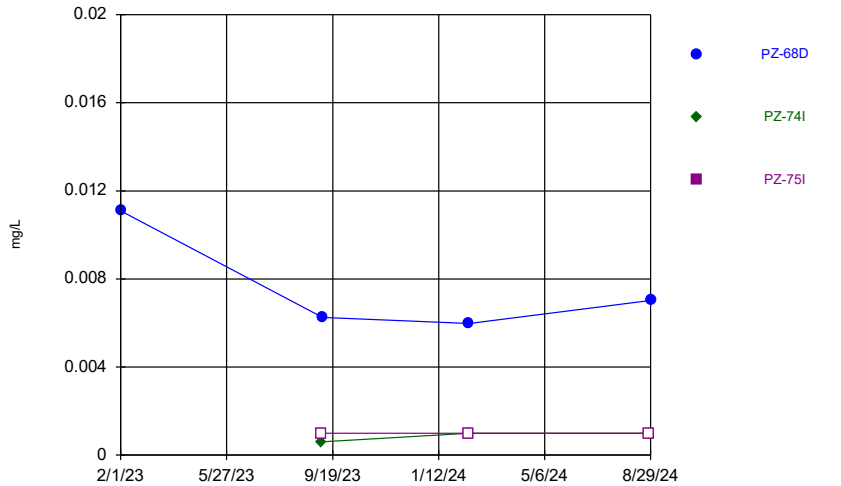
Time Series



Constituent: Molybdenum Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
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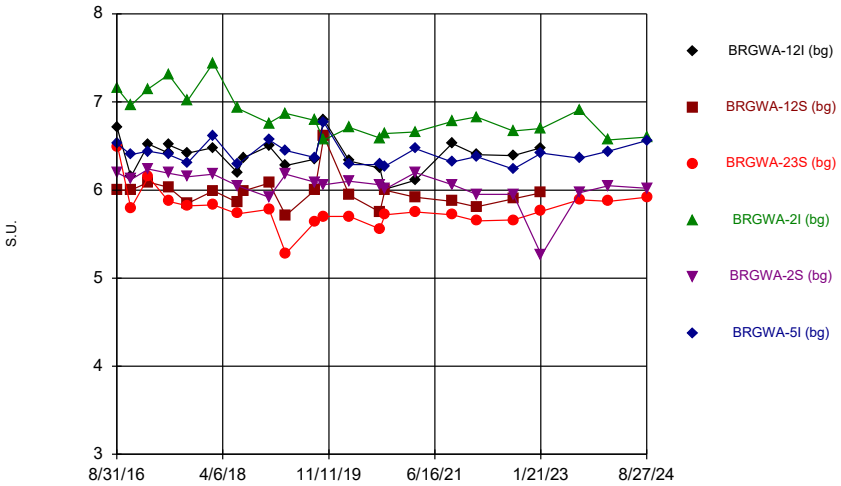
Time Series



Constituent: Molybdenum Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

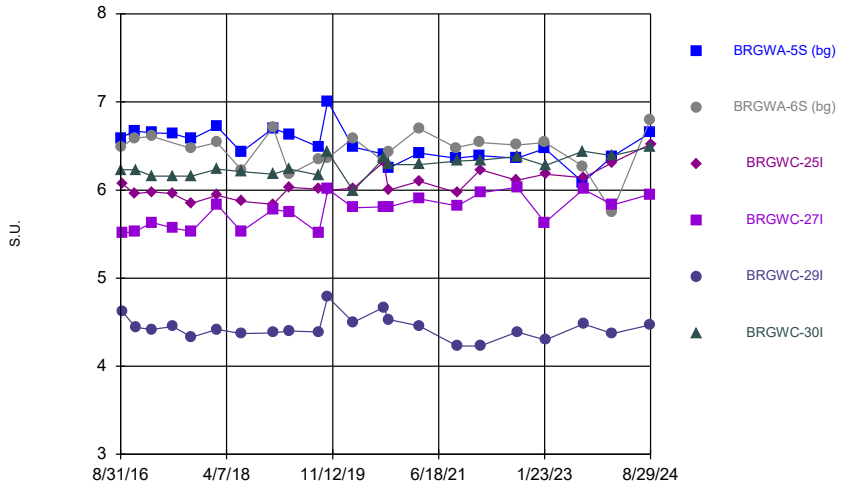
Time Series



Constituent: pH, Field Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

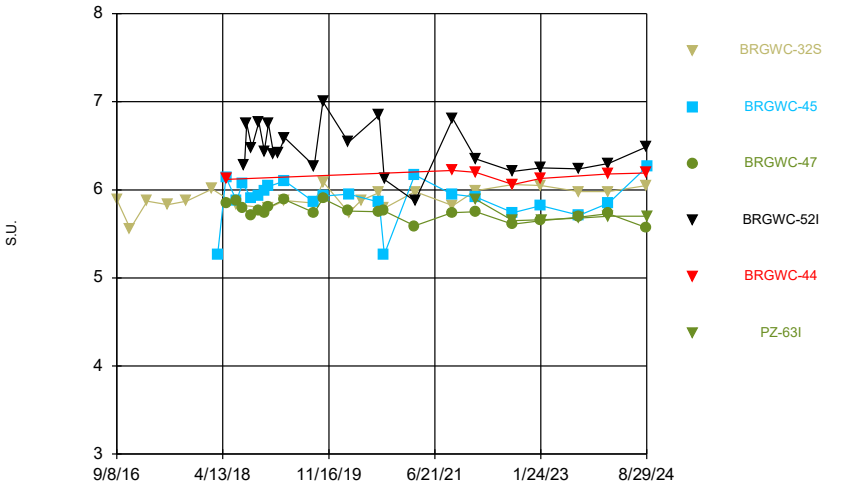
Time Series



Constituent: pH, Field Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

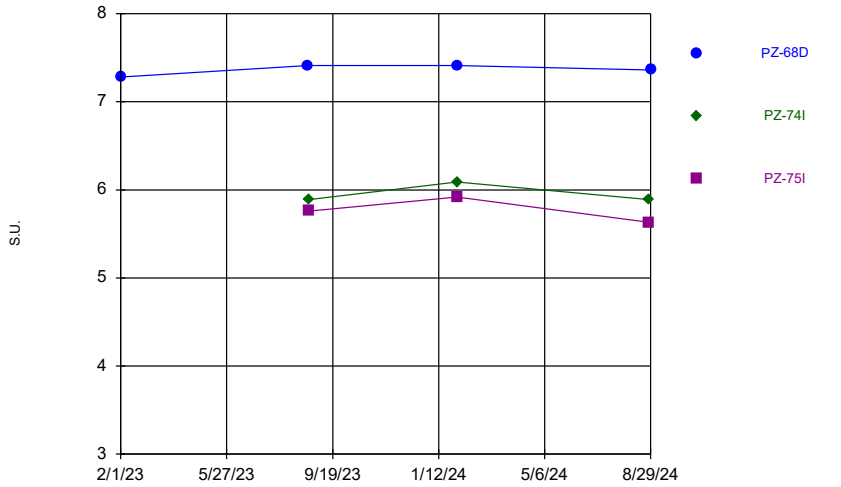
Time Series



Constituent: pH, Field Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

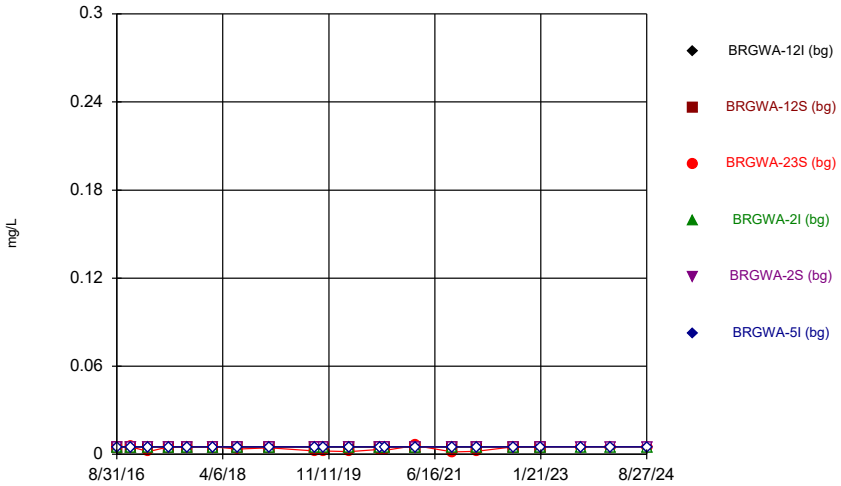
Time Series



Constituent: pH, Field Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

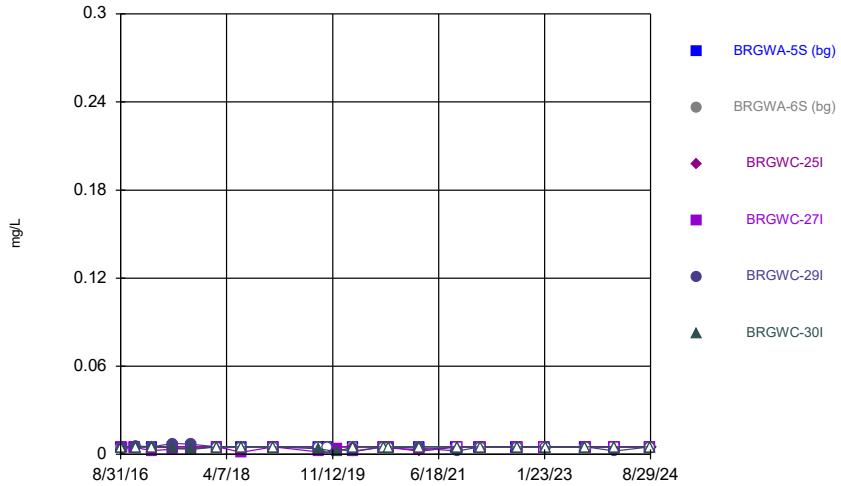
Time Series



Constituent: Selenium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

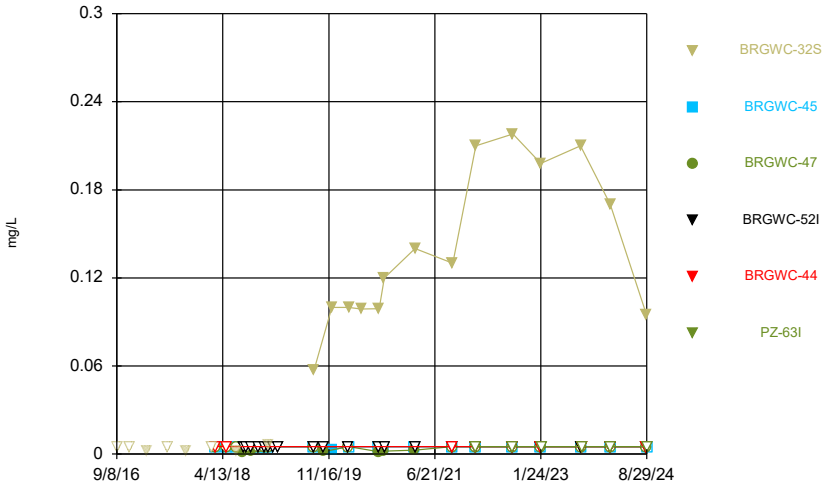
Time Series



Constituent: Selenium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

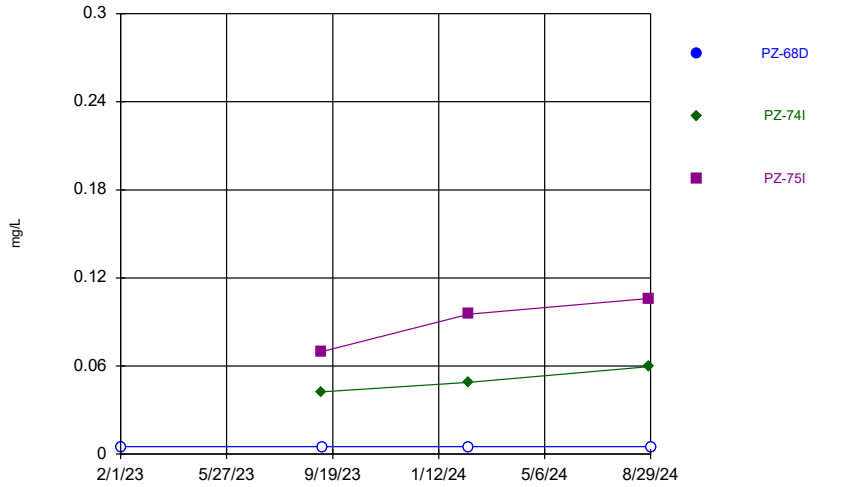
Time Series



Constituent: Selenium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

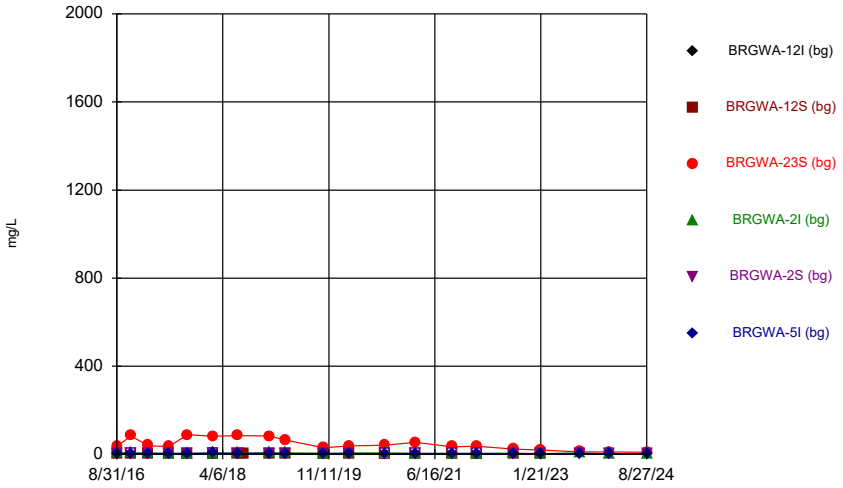
Time Series



Constituent: Selenium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

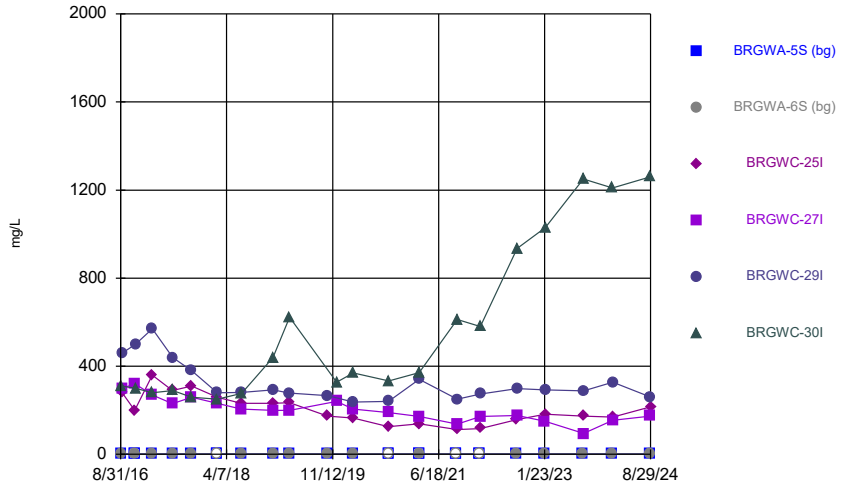
Time Series



Constituent: Sulfate Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

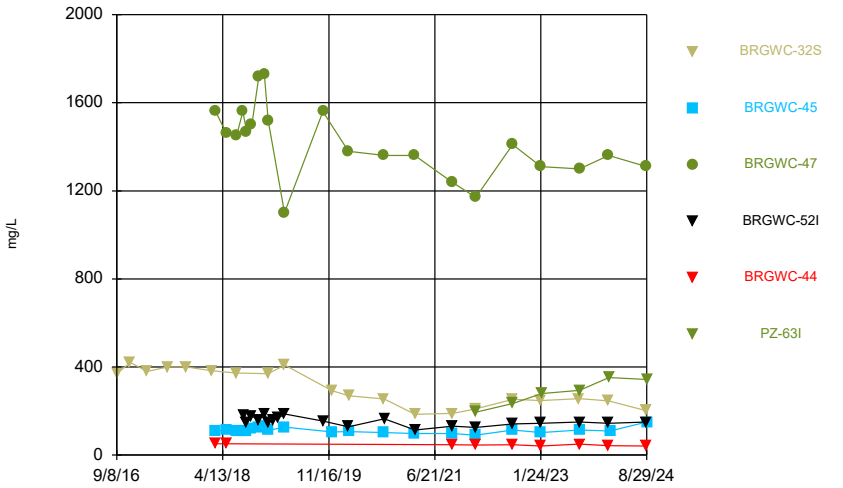
Time Series



Constituent: Sulfate Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

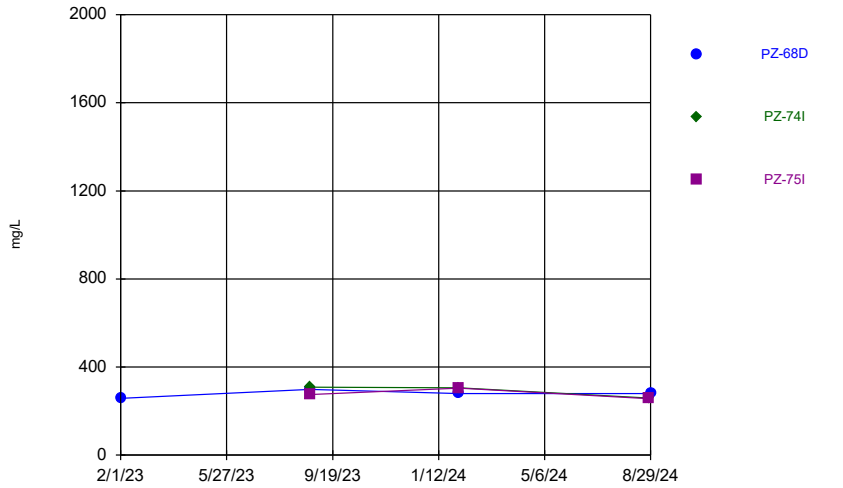
Time Series



Constituent: Sulfate Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

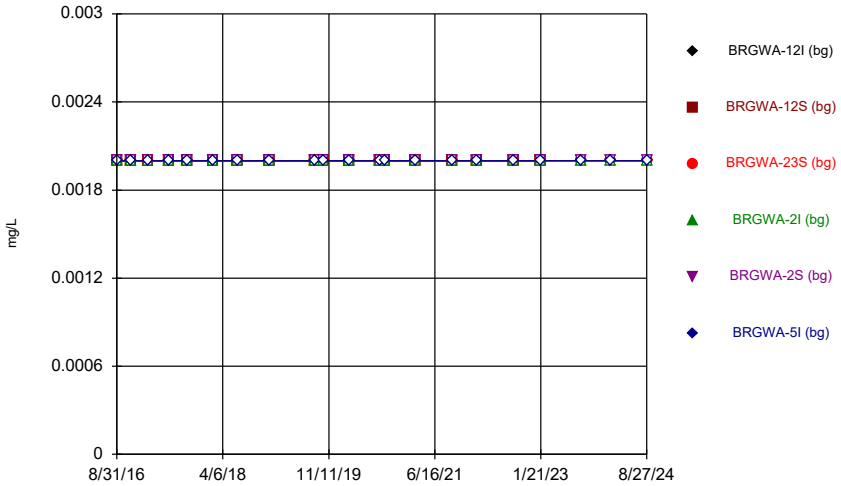
Time Series



Constituent: Sulfate Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

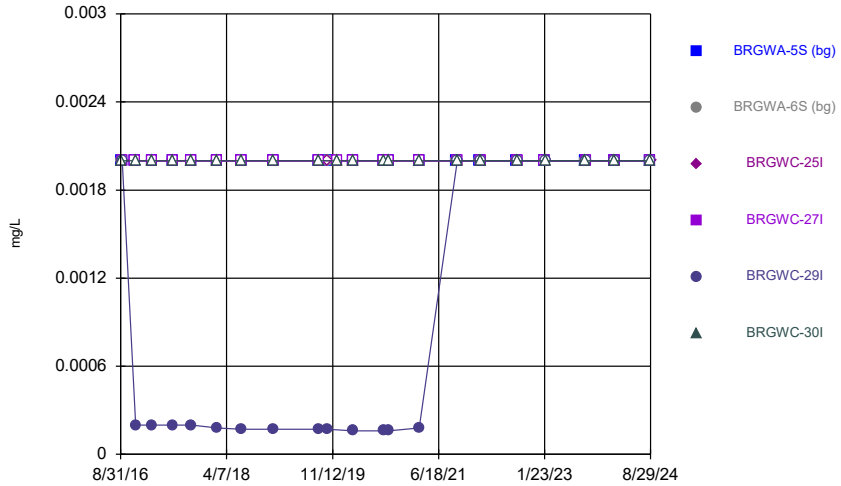
Time Series



Constituent: Thallium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

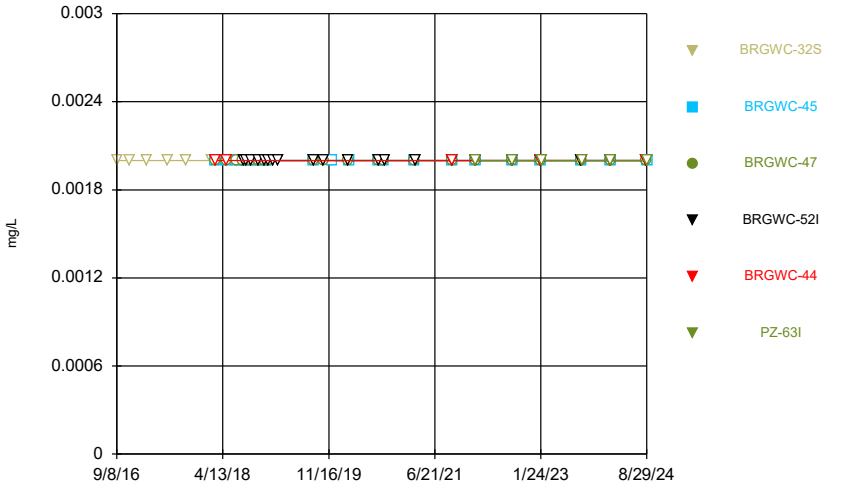
Time Series



Constituent: Thallium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

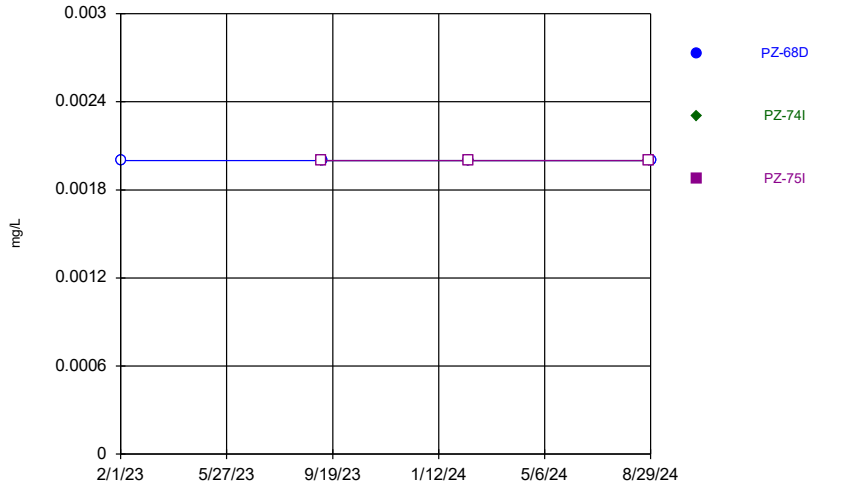
Time Series



Constituent: Thallium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

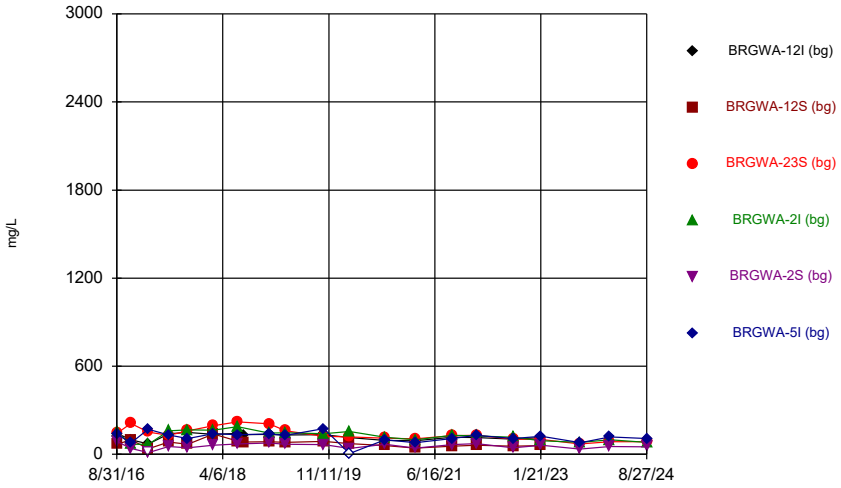
Time Series



Constituent: Thallium Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

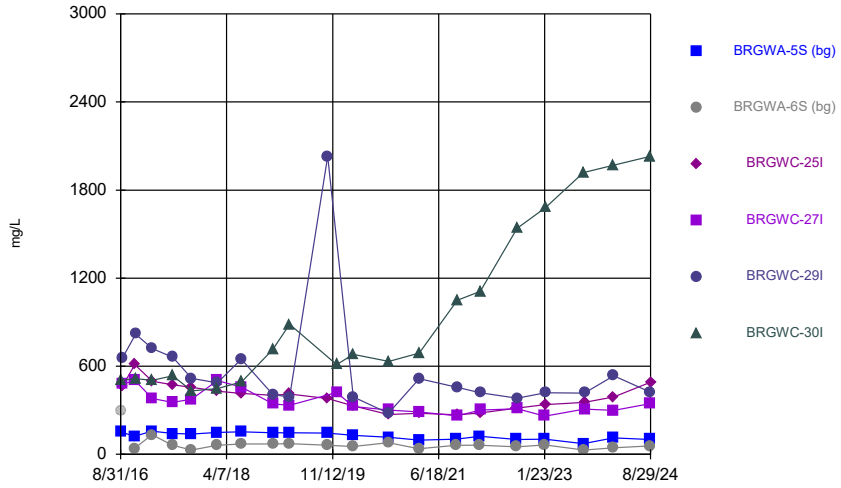
Time Series



Constituent: Total Dissolved Solids Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

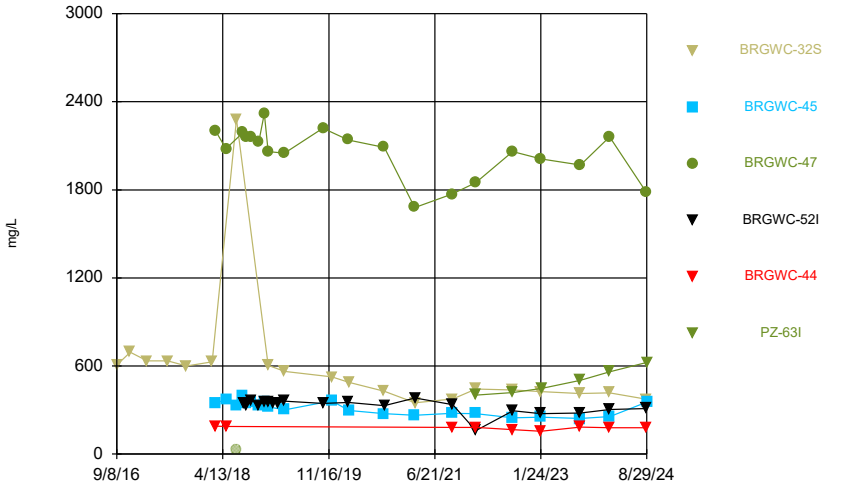
Time Series



Constituent: Total Dissolved Solids Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

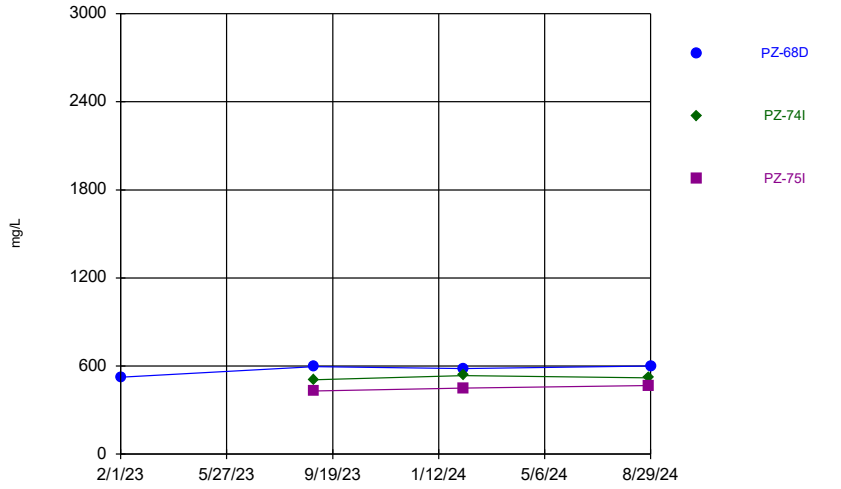
Time Series



Constituent: Total Dissolved Solids Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/10/2025 10:44 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				0.0009 (J)	<0.003	<0.003
9/1/2016	0.0015 (J)	<0.003				
9/6/2016			<0.003			
11/16/2016	<0.003	0.0011 (J)		<0.003	<0.003	<0.003
11/17/2016			<0.003			
2/20/2017						<0.003
2/21/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
6/12/2017				<0.003		<0.003
6/13/2017		0.0009 (J)	<0.003		0.0011 (J)	
6/14/2017	0.0014 (J)					
9/26/2017	<0.003	0.0032	<0.003	<0.003	<0.003	<0.003
2/13/2018				<0.003	<0.003	<0.003
2/14/2018	<0.003	<0.003	<0.003			
6/26/2018	<0.003	<0.003	0.002 (J)	<0.003	<0.003	<0.003
12/18/2018	0.009	<0.003	<0.003	<0.003	<0.003	<0.003
8/27/2019	0.0072	<0.003		<0.003	<0.003	<0.003
8/29/2019			<0.003			
10/15/2019	0.012	<0.003	<0.003	0.00047 (J)	<0.003	<0.003
3/3/2020	0.0063	<0.003		<0.003	<0.003	<0.003
3/4/2020			<0.003			
8/18/2020	0.0067	<0.003	<0.003	0.00054 (J)	0.00042 (J)	<0.003
9/15/2020	0.01	<0.003	0.00033 (J)	<0.003	<0.003	<0.003
3/1/2021				<0.003		
3/2/2021	0.0095	<0.003	<0.003		<0.003	<0.003
9/21/2021	0.017	<0.003				<0.003
9/22/2021			<0.003	<0.003	<0.003	
2/1/2022	0.011	<0.003	<0.003	<0.003	<0.003	<0.003
8/23/2022	0.0241	<0.003	<0.003	<0.003	<0.003	<0.003
1/24/2023	0.0245	<0.003	<0.003	<0.003	<0.003	<0.003
8/31/2023			<0.003	<0.003	<0.003	<0.003
2/10/2024			<0.003	<0.003	<0.003	<0.003
8/27/2024			<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.003					
9/1/2016		<0.003				
9/6/2016						<0.003
9/8/2016			<0.003	<0.003	<0.003	
11/15/2016	<0.003	<0.003				
11/17/2016			<0.003			
11/18/2016				<0.003		
11/21/2016					<0.003	<0.003
2/20/2017	<0.003	<0.003				
2/21/2017			<0.003	<0.003		
2/22/2017					<0.003	<0.003
6/12/2017	<0.003	<0.003				
6/13/2017			<0.003	<0.003		
6/14/2017					0.0007 (J)	<0.003
9/26/2017	<0.003	<0.003				
9/27/2017			<0.003	<0.003	<0.003	<0.003
2/13/2018	<0.003	<0.003				
2/14/2018			<0.003	<0.003	<0.003	<0.003
6/26/2018	<0.003	<0.003	<0.003			
6/27/2018				<0.003	<0.003	
6/28/2018						<0.003
12/18/2018	0.00087 (J)	<0.003	<0.003		<0.003	<0.003
12/20/2018				<0.003		
8/27/2019	<0.003	<0.003	<0.003			<0.003
8/28/2019				<0.003	<0.003	
10/15/2019	<0.003	<0.003	<0.003			
10/16/2019					<0.003	
12/4/2019				<0.003		<0.003
3/3/2020	<0.003	<0.003				
3/4/2020			<0.003	<0.003	<0.003	
3/5/2020						<0.003
8/18/2020	0.0016 (J)	<0.003				
8/19/2020			<0.003	<0.003	<0.003	<0.003
9/15/2020	<0.003	<0.003	<0.003		<0.003	
9/16/2020				<0.003		<0.003
3/1/2021		<0.003				
3/2/2021	<0.003		<0.003			
3/3/2021				<0.003	<0.003	<0.003
9/21/2021	<0.003					
9/22/2021		<0.003				
9/28/2021			<0.003	<0.003	<0.003	<0.003
2/1/2022	<0.003	<0.003				
2/2/2022			<0.003			0.0013 (J)
2/3/2022					<0.003	
2/4/2022				<0.003		
8/23/2022	<0.003	<0.003	<0.003			
8/24/2022					<0.003	<0.003
8/25/2022				<0.003		
1/24/2023	<0.003	<0.003				
1/25/2023				<0.003		
1/26/2023			<0.003		<0.003	<0.003
8/31/2023	<0.003	<0.003				<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/6/2023			<0.003	<0.003	<0.003	
2/10/2024	<0.003	<0.003				<0.003
2/13/2024			<0.003	<0.003	<0.003	
8/27/2024	<0.003	<0.003		<0.003	<0.003	
8/28/2024						<0.003
8/29/2024			<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.003					
11/21/2016	<0.003					
2/22/2017	<0.003					
6/14/2017	<0.003					
9/27/2017	<0.003					
2/14/2018	<0.003					
3/6/2018		<0.003	<0.003		<0.003	
5/1/2018		<0.003	<0.003 (D)		<0.003	
6/27/2018	<0.003		<0.003			
6/28/2018		<0.003				
7/31/2018		<0.003				
8/1/2018			<0.003			
8/10/2018				<0.003		
8/23/2018		<0.003	<0.003	0.00085 (J)		
9/19/2018		<0.003	<0.003	<0.003		
10/29/2018		<0.003	<0.003	<0.003		
11/28/2018		<0.003	<0.003	<0.003		
12/19/2018	<0.003		<0.003			
12/20/2018		0.0024 (J)		<0.003		
1/17/2019				<0.003		
2/13/2019				<0.003		
8/27/2019	<0.003					
8/28/2019		0.00046 (J)	<0.003			
8/29/2019				<0.003		
10/16/2019			<0.003	<0.003		
12/3/2019		0.00088 (J)				
12/4/2019	<0.003					
3/4/2020			<0.003	0.00043 (J)		
3/5/2020	0.0014 (J)	0.0016 (J)				
8/19/2020	<0.003					
8/20/2020		0.0031	<0.003	<0.003		
9/16/2020	<0.003	0.0012 (J)	0.00035 (J)			
9/17/2020				<0.003		
3/2/2021		0.0014 (J)	<0.003			
3/4/2021	<0.003			0.00091 (J)		
9/23/2021		<0.003	<0.003			
9/28/2021	<0.003			<0.003	<0.003	
2/2/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
2/4/2022						<0.003
8/23/2022			<0.003			
8/25/2022	<0.003	<0.003		<0.003	<0.003	<0.003
1/24/2023	<0.003					
1/25/2023		<0.003		<0.003	<0.003	
1/26/2023			<0.003			
1/30/2023						<0.003
8/31/2023	<0.003					
9/6/2023		<0.003	<0.003	<0.003		
9/8/2023					<0.003	<0.003
2/10/2024	<0.003		<0.003		<0.003	
2/14/2024		<0.003		<0.003		<0.003
8/27/2024					<0.003	
8/28/2024	<0.003		<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/29/2024		<0.003				<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.00176 (J)		
9/6/2023		<0.003	<0.003
9/8/2023	<0.003		
2/14/2024	<0.003	<0.003	<0.003
8/27/2024		<0.003	<0.003
8/29/2024	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005				
9/6/2016			<0.005			
11/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005
11/17/2016			<0.005			
2/20/2017						<0.005
2/21/2017	<0.005	<0.005	<0.005	<0.005	<0.005	
6/12/2017				0.0007 (J)		0.0007 (J)
6/13/2017		<0.005	0.0008 (J)		<0.005	
6/14/2017	0.0009 (J)					
9/26/2017	0.0012 (J)	0.0006 (J)	0.0012 (J)	0.001 (J)	<0.005	0.0009 (J)
2/13/2018				<0.005	<0.005	<0.005
2/14/2018	<0.005	<0.005	0.0007 (J)			
6/26/2018	<0.005	<0.005	0.00062 (J)	0.00062 (J)	<0.005	<0.005
12/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005 (X)	<0.005 (X)
8/27/2019	<0.005	<0.005		<0.005	<0.005	<0.005
8/29/2019			<0.005			
10/15/2019	0.00088 (J)	0.00046 (J)	0.00075 (J)	0.0008 (J)	0.00063 (J)	0.00058 (J)
3/3/2020	0.0023 (J)	0.0015 (J)		0.0027 (J)	0.00098 (J)	0.0024 (J)
3/4/2020			<0.005			
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021				<0.005		
3/2/2021	<0.005	<0.005	<0.005		<0.005	<0.005
9/21/2021	<0.005	<0.005				<0.005
9/22/2021			<0.005	<0.005	<0.005	
2/1/2022	0.0017 (J)	<0.005	0.0018 (J)	0.0012 (J)	<0.005	0.0013 (J)
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/31/2023			<0.005	<0.005	<0.005	<0.005
2/10/2024			<0.005	<0.005	<0.005	<0.005
8/27/2024			<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.005					
9/1/2016		<0.005				
9/6/2016						<0.005
9/8/2016			<0.005	<0.005	<0.005	
11/15/2016	<0.005	<0.005				
11/17/2016			<0.005			
11/18/2016				<0.005		
11/21/2016					0.0019 (J)	<0.005
2/20/2017	<0.005	<0.005				
2/21/2017			<0.005	<0.005		
2/22/2017					<0.005	<0.005
6/12/2017	0.0006 (J)	<0.005				
6/13/2017			0.0006 (J)	0.0009 (J)		
6/14/2017					0.002 (J)	<0.005
9/26/2017	0.0007 (J)	0.0007 (J)				
9/27/2017			<0.005	0.0007 (J)	0.0016 (J)	<0.005
2/13/2018	<0.005	<0.005				
2/14/2018			<0.005	<0.005	<0.005	<0.005
6/26/2018	<0.005	<0.005	0.00072 (J)			
6/27/2018				<0.005	<0.005	
6/28/2018						<0.005 (X)
12/18/2018	<0.005 (X)	<0.005 (X)	0.00091 (J)		<0.005	<0.005
12/20/2018				<0.005		
8/27/2019	<0.005	<0.005	<0.005			<0.005
8/28/2019				0.0014 (J)	0.00051 (J)	
10/15/2019	0.00039 (J)	<0.005	0.00052 (J)			
10/16/2019					0.00065 (J)	
12/4/2019				0.0011 (J)		0.00056 (J)
3/3/2020	0.0027 (J)	0.0018 (J)				
3/4/2020			<0.005	<0.005	0.00044 (J)	
3/5/2020						<0.005
8/18/2020	<0.005	<0.005				
8/19/2020			<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005		<0.005	
9/16/2020				<0.005		<0.005
3/1/2021		<0.005				
3/2/2021	<0.005		<0.005			
3/3/2021				<0.005	0.0015 (J)	<0.005
9/21/2021	<0.005					
9/22/2021		<0.005				
9/28/2021			<0.005	<0.005	<0.005	<0.005
2/1/2022	0.0012 (J)	<0.005				
2/2/2022			<0.005			<0.005
2/3/2022					<0.005	
2/4/2022				<0.005		
8/23/2022	<0.005	<0.005	<0.005			
8/24/2022					<0.005	0.00283 (J)
8/25/2022				<0.005		
1/24/2023	<0.005	0.0021 (J)				
1/25/2023				<0.005		
1/26/2023			<0.005		<0.005	0.00208 (J)
8/31/2023	<0.005	<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/6/2023			<0.005	<0.005	<0.005	
2/10/2024	<0.005	<0.005				0.002 (J)
2/13/2024			<0.005	<0.005	<0.005	
8/27/2024	<0.005	<0.005		<0.005	<0.005	
8/28/2024						<0.005
8/29/2024			<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.005					
11/21/2016	<0.005					
2/22/2017	<0.005					
6/14/2017	<0.005					
9/27/2017	<0.005					
2/14/2018	<0.005					
3/6/2018		<0.005 (X)	<0.005 (X)		<0.005 (X)	
5/1/2018		0.0021 (J)	0.0018 (JD)		<0.005	
6/27/2018	<0.005		0.0016 (J)			
6/28/2018		<0.005 (X)				
7/31/2018		<0.005				
8/1/2018			0.0028 (J)			
8/10/2018				<0.005		
8/23/2018		0.00075 (J)	<0.005	<0.005		
9/19/2018		<0.005	<0.005	0.0013 (J)		
10/29/2018		<0.005	0.0012 (J)	0.0038 (J)		
11/28/2018		0.00096 (J)	0.0019 (J)	0.0016 (J)		
12/19/2018	<0.005		0.00075 (J)			
12/20/2018		<0.005		0.0032 (J)		
1/17/2019				0.0032 (J)		
2/13/2019				<0.005		
8/27/2019	<0.005					
8/28/2019		0.00058 (J)	0.0018 (J)			
8/29/2019				0.00067 (J)		
10/16/2019			<0.005	0.0026 (J)		
12/3/2019		0.0007 (J)				
12/4/2019	0.00053 (J)					
3/4/2020			0.00049 (J)	0.0047 (J)		
3/5/2020	<0.005	<0.005				
8/19/2020	<0.005					
8/20/2020		<0.005	0.00089 (J)	0.0031 (J)		
9/16/2020	<0.005	<0.005	<0.005			
9/17/2020				<0.005		
3/2/2021		<0.005	<0.005			
3/4/2021	<0.005			0.003 (J)		
9/23/2021		<0.005	0.002 (J)			
9/28/2021	<0.005			<0.005	<0.005	
2/2/2022	<0.005	<0.005	0.0056	<0.005	0.004 (J)	
2/4/2022						<0.005
8/23/2022			0.00228 (J)			
8/25/2022	<0.005	<0.005		<0.005	<0.005	<0.005
1/24/2023	<0.005					
1/25/2023		0.00225 (J)		<0.005	0.00221 (J)	
1/26/2023			0.0024 (J)			
1/30/2023						<0.005
8/31/2023	<0.005					
9/6/2023		<0.005	0.0038 (J)	<0.005		
9/8/2023					<0.005	<0.005
2/10/2024	<0.005		<0.005		<0.005	
2/14/2024		<0.005		<0.005		<0.005
8/27/2024					<0.005	
8/28/2024	<0.005		<0.005	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/29/2024		<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.0058		
9/6/2023		<0.005	<0.005
9/8/2023	0.00342 (J)		
2/14/2024	<0.005	<0.005	<0.005
8/27/2024		<0.005	<0.005
8/29/2024	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				0.0239	0.0099 (J)	0.0273
9/1/2016	0.0454	0.0528				
9/6/2016			0.0624			
11/16/2016	0.0623	0.0509		0.0147	0.0102	0.0365
11/17/2016			0.109			
2/20/2017						0.0336
2/21/2017	0.0644	0.0531	0.095	0.0109	0.0094 (J)	
6/12/2017				0.0094 (J)		0.0322
6/13/2017		0.0543	0.0861		0.0094 (J)	
6/14/2017	0.0726					
9/26/2017	0.0765	0.0547	0.104	0.0156	0.0096 (J)	0.0364
2/13/2018				0.0134	0.0102	0.054
2/14/2018	0.0786	0.0603	0.129			
6/26/2018	0.063	0.059	0.13	0.014	0.0093 (J)	0.032
12/18/2018	0.067	0.056	0.13	0.0076 (J)	0.01	0.038
8/27/2019	0.058	0.057		0.012	0.0095 (J)	0.028
8/29/2019			0.076			
10/15/2019	0.06	0.053	0.069	0.013	0.0091 (J)	0.032
3/3/2020	0.076	0.06		0.017	0.011	0.028
3/4/2020			0.087			
8/18/2020	0.053	0.058	0.067	0.01 (J)	0.01	0.022
9/15/2020	0.059	0.058	0.086	0.0083 (J)	0.0094 (J)	0.022
3/1/2021				0.0074		
3/2/2021	0.053	0.063	0.097		0.0094	0.023
9/21/2021	0.074	0.06				0.025
9/22/2021			0.07	0.0075	0.0097	
2/1/2022	0.057	0.064	0.08	0.0066	0.01	0.028
8/23/2022	0.0602	0.0607	0.0573	0.00954	0.012	0.0241
1/24/2023	0.0512	0.0576	0.0468	0.00453	0.0118	0.0303
8/31/2023			0.0434	0.0068	0.0135	0.0245
2/10/2024			0.0431	0.0124	0.0137	0.0296
8/27/2024			0.0432	0.00493	0.0132	0.0314

Time Series

Constituent: Barium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	0.0495					
9/1/2016		0.0142				
9/6/2016						0.0206
9/8/2016			0.0378	0.0184	0.0199	
11/15/2016	0.0512	0.0126				
11/17/2016			0.0448			
11/18/2016				0.0173		
11/21/2016					0.0221 (J)	0.0237 (J)
2/20/2017	0.0586	0.0142				
2/21/2017			0.0447	0.015		
2/22/2017					0.0179	0.0219
6/12/2017	0.0567	0.0134				
6/13/2017			0.0351	0.0143		
6/14/2017					0.0157	0.0197
9/26/2017	0.0586	0.0133				
9/27/2017			0.0383	0.017	0.0165	0.0213
2/13/2018	0.054	0.0145				
2/14/2018			0.0327	0.0166	0.0163	0.0236
6/26/2018	0.063	0.014	0.031			
6/27/2018				0.015	0.017	
6/28/2018						0.023
12/18/2018	0.045	0.013	0.03		0.017	0.029
12/20/2018				0.015		
8/27/2019	0.056	0.013	0.027			0.027
8/28/2019				0.019	0.02	
10/15/2019	0.049	0.013	0.027			
10/16/2019					0.019	
12/4/2019				0.016		0.021
3/3/2020	0.051	0.019				
3/4/2020			0.026	0.015	0.018	
3/5/2020						0.025
8/18/2020	0.04	0.014				
8/19/2020			0.027	0.016	0.019	0.026
9/15/2020	0.038	0.013	0.024		0.017	
9/16/2020				0.016		0.022
3/1/2021		0.016				
3/2/2021	0.037		0.026			
3/3/2021				0.016	0.021	0.028
9/21/2021	0.038					
9/22/2021		0.014				
9/28/2021			0.023	0.013	0.017	0.035
2/1/2022	0.04	0.014				
2/2/2022			0.023			0.031
2/3/2022					0.016	
2/4/2022				0.015		
8/23/2022	0.0379	0.014	0.0259			
8/24/2022					0.0175	0.0389
8/25/2022				0.0161		
1/24/2023	0.0394	0.0132				
1/25/2023				0.0166		
1/26/2023			0.0293		0.018	0.0397
8/31/2023	0.0352	0.0143				0.04

Time Series

Constituent: Barium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/6/2023			0.0271	0.0151	0.0174	
2/10/2024	0.0396	0.0151				0.0349
2/13/2024			0.0276	0.0155	0.0179	
8/27/2024	0.0362	0.0159		0.0164	0.0163	
8/28/2024						0.0339
8/29/2024			0.0291			

Time Series

Constituent: Barium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	0.0593					
11/21/2016	0.0532 (BR)					
2/22/2017	0.0498					
6/14/2017	0.0421					
9/27/2017	0.0411					
2/14/2018	0.0417					
3/6/2018		0.1	0.0519		0.0461	
5/1/2018		0.084	0.057 (D)		0.052	
6/27/2018	0.038		0.046			
6/28/2018		0.067				
7/31/2018		0.087 (J+X)				
8/1/2018			0.043 (J+X)			
8/10/2018				0.038		
8/23/2018		0.084	0.038	0.03 (JX)		
9/19/2018		0.086	0.036	0.03		
10/29/2018		0.098 (J+X)	0.041 (J+X)	0.025 (J+X)		
11/28/2018		0.11	0.039	0.017		
12/19/2018	0.036		0.04			
12/20/2018		0.093		0.013		
1/17/2019				0.017		
2/13/2019				0.025		
8/27/2019	0.032					
8/28/2019		0.11	0.035			
8/29/2019				0.017		
10/16/2019			0.032	0.015		
12/3/2019		0.099				
12/4/2019	0.028					
3/4/2020			0.038	0.022		
3/5/2020	0.026	0.078				
8/19/2020	0.025					
8/20/2020		0.083	0.035	0.017		
9/16/2020	0.024	0.085	0.028			
9/17/2020				0.02		
3/2/2021		0.061	0.036			
3/4/2021	0.024			0.019		
9/23/2021		0.064	0.031			
9/28/2021	0.02			0.013	0.049	
2/2/2022	0.023	0.063	0.028	0.013	0.052	
2/4/2022						0.037
8/23/2022			0.0285			
8/25/2022	0.0231	0.0574		0.0179	0.056	0.023
1/24/2023	0.0182					
1/25/2023		0.0695		0.0249	0.0498	
1/26/2023			0.0311			
1/30/2023						0.022
8/31/2023	0.0243					
9/6/2023		0.0524	0.028	0.0415		
9/8/2023					0.0555	0.0221
2/10/2024	0.0192		0.0278		0.052	
2/14/2024		0.0497		0.0414		0.0202
8/27/2024					0.0524	
8/28/2024	0.0163		0.0257	0.0345		

Time Series

Constituent: Barium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/29/2024		0.0602				0.0206

Time Series

Constituent: Barium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.145		
9/6/2023		0.0346	0.0513
9/8/2023	0.107		
2/14/2024	0.0853	0.0245	0.0421
8/27/2024		0.026	0.035
8/29/2024	0.0796		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005	<0.0005				
9/6/2016			<0.0005			
11/16/2016	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
11/17/2016			<0.0005			
2/20/2017						<0.0005
2/21/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6/12/2017				<0.0005		<0.0005
6/13/2017		<0.0005	<0.0005		<0.0005	
6/14/2017	<0.0005					
9/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/13/2018				<0.0005	<0.0005	<0.0005
2/14/2018	<0.0005	<0.0005	<0.0005			
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/27/2019	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
8/29/2019			<0.0005			
10/15/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/3/2020	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
3/4/2020			<0.0005			
8/18/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/15/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/1/2021				<0.0005		
3/2/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
9/21/2021	<0.0005	<0.0005				<0.0005
9/22/2021			<0.0005	<0.0005	<0.0005	
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2023			<0.0005	<0.0005	<0.0005	<0.0005
2/10/2024			<0.0005	<0.0005	<0.0005	<0.0005
8/27/2024			<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.0005					
9/1/2016		<0.0005				
9/6/2016						<0.0005
9/8/2016			<0.0005	0.0002 (J)	0.0011 (J)	
11/15/2016	<0.0005	<0.0005				
11/17/2016			<0.0005			
11/18/2016				0.0002 (J)		
11/21/2016					0.0012 (J)	<0.0005
2/20/2017	<0.0005	<0.0005				
2/21/2017			<0.0005	0.0002 (J)		
2/22/2017					0.0014 (J)	<0.0005
6/12/2017	<0.0005	<0.0005				
6/13/2017			<0.0005	0.0002 (J)		
6/14/2017					0.0012 (J)	<0.0005
9/26/2017	<0.0005	<0.0005				
9/27/2017			<0.0005	0.0001 (J)	0.001 (J)	<0.0005
2/13/2018	<0.0005	<0.0005				
2/14/2018			<0.0005	<0.0005	<0.003	<0.0005
6/26/2018	<0.0005	<0.0005	<0.0005			
6/27/2018				0.00014 (J)	0.0008 (J)	
6/28/2018						<0.0005
12/18/2018	<0.0005	<0.0005	<0.0005		0.00071 (J)	<0.0005
12/20/2018				<0.0005 (X)		
8/27/2019	<0.0005	<0.0005	<0.0005			<0.0005
8/28/2019				0.00012 (J)	0.0008 (J)	
10/15/2019	<0.0005	<0.0005	<0.0005			
10/16/2019					0.00072 (J)	
10/17/2019				<0.0005		<0.0005
12/4/2019				0.00012 (J)		<0.0005
3/3/2020	<0.0005	<0.0005				
3/4/2020			<0.0005	0.00012 (J)	0.00073 (J)	
3/5/2020						<0.0005
8/18/2020	<0.0005	<0.0005				
8/19/2020			<0.0005	9.9E-05 (J)	0.00074 (J)	<0.0005
9/15/2020	<0.0005	<0.0005	<0.0005		0.00071 (J)	
9/16/2020				0.00011 (J)		<0.0005
3/1/2021		<0.0005				
3/2/2021	<0.0005		<0.0005			
3/3/2021				7.1E-05 (J)	0.00094	<0.0005
9/21/2021	<0.0005					
9/22/2021		<0.0005				
9/28/2021			<0.0005	<0.0005	0.00079	<0.0005
2/1/2022	<0.0005	<0.0005				
2/2/2022			<0.0005			<0.0005
2/3/2022					0.00083	
2/4/2022				5.4E-05 (J)		
8/23/2022	<0.0005	<0.0005	<0.0005			
8/24/2022					0.000845	<0.0005
8/25/2022				<0.0005		
1/24/2023	<0.0005	<0.0005				
1/25/2023				<0.0005		
1/26/2023			<0.0005		0.00109	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2023	<0.0005	<0.0005				<0.0005
9/6/2023			<0.0005	<0.0005	0.00113	
2/10/2024	<0.0005	<0.0005				<0.0005
2/13/2024			<0.0005	<0.0005	0.00114	
8/27/2024	<0.0005	<0.0005		<0.0005	0.000892	
8/28/2024						<0.0005
8/29/2024			<0.0005			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.0005					
11/21/2016	<0.0005					
2/22/2017	<0.0005					
6/14/2017	<0.0005					
9/27/2017	<0.0005					
2/14/2018	<0.0005					
3/6/2018		<0.0005	<0.0005		<0.0005	
5/1/2018		<0.0005	<0.0005 (D)		<0.0005	
6/27/2018	<0.0005		<0.0005			
6/28/2018		<0.0005				
7/31/2018		<0.0005				
8/1/2018			<0.0005			
8/10/2018				<0.0005		
8/23/2018		7.9E-05 (J)	5.5E-05 (J)	<0.0005		
9/19/2018		<0.0005	<0.0005	<0.0005		
10/29/2018		<0.0005	<0.0005	<0.0005		
11/28/2018		<0.0005	5.6E-05 (J)	<0.0005		
12/19/2018	<0.0005		<0.0005 (X)			
12/20/2018		<0.0005		<0.0005		
1/17/2019				<0.0005		
2/13/2019				<0.0005		
8/27/2019	<0.0005					
8/28/2019		<0.0005	<0.0005			
8/29/2019				<0.0005		
10/16/2019			<0.0005	<0.0005		
10/17/2019	<0.0005	<0.0005				
12/3/2019		<0.0005				
12/4/2019	<0.0005					
3/4/2020			<0.0005	<0.0005		
3/5/2020	<0.0005	<0.0005				
8/19/2020	<0.0005					
8/20/2020		4.6E-05 (J)	4.7E-05 (J)	<0.0005		
9/16/2020	<0.0005	<0.0005	<0.0005			
9/17/2020				<0.0005		
3/2/2021		<0.0005	<0.0005			
3/4/2021	<0.0005			<0.0005		
9/23/2021		<0.0005	<0.0005			
9/28/2021	<0.0005			<0.0005	<0.0005	
2/2/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
2/4/2022						<0.0005
8/23/2022			<0.0005			
8/25/2022	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
1/24/2023	<0.0005					
1/25/2023		<0.0005		<0.0005	<0.0005	
1/26/2023			<0.0005			
1/30/2023						<0.0005
8/31/2023	<0.0005					
9/6/2023		<0.0005	<0.0005	<0.0005		
9/8/2023					<0.0005	<0.0005
2/10/2024	<0.0005		<0.0005		<0.0005	
2/14/2024		<0.0005		<0.0005		0.000286 (J)
8/27/2024					<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/28/2024	<0.0005		<0.0005	<0.0005		
8/29/2024		<0.0005				<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.0005		
9/6/2023		<0.0005	<0.0005
9/8/2023	<0.0005		
2/14/2024	<0.0005	<0.0005	<0.0005
8/27/2024		<0.0005	<0.0005
8/29/2024	<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				0.0072 (J)	<0.015	<0.015
9/1/2016	0.0093 (J)	<0.015				
9/6/2016			0.0362 (J)			
11/16/2016	0.0127 (J)	0.0081 (J)		0.0117 (J)	0.0109 (J)	0.0187 (J)
11/17/2016			0.0617			
2/20/2017						0.0066 (J)
2/21/2017	0.0071 (J)	<0.015	0.0245 (J)	0.0088 (J)	<0.015	
6/12/2017				0.0133 (J)		<0.015
6/13/2017		<0.015	<0.04		<0.015	
6/14/2017	0.0078 (J)					
9/26/2017	<0.04	<0.015	<0.04	0.0093 (J)	<0.015	<0.015
2/13/2018				0.0141 (J)	<0.015	<0.015
2/14/2018	0.0068 (J)	<0.015	0.0314 (J)			
6/26/2018	0.008 (J)	<0.015	0.062	0.012 (J)	<0.015	0.0042 (J)
12/18/2018	0.0083 (J)	0.0053 (J)	0.055	0.0086 (J)	<0.015	<0.015
3/19/2019	0.008 (J)	<0.015	0.068	0.00565 (JD)	<0.015	<0.015
10/15/2019	0.006 (J)	<0.015	0.022 (J)	0.0067 (J)	<0.015	<0.015
3/3/2020	0.01 (J)	0.0065 (J)		0.0082 (J)	<0.015	<0.015
3/4/2020			0.044 (J)			
9/15/2020	0.0071 (J)	<0.015	0.033 (J)	<0.015	<0.015	<0.015
3/1/2021				<0.015		
3/2/2021	0.0057 (J)	<0.015	0.042		<0.015	0.0053 (J)
9/21/2021	<0.04	<0.015				<0.015
9/22/2021			0.047	<0.015	<0.015	
2/1/2022	<0.04	<0.015	0.046	<0.015	<0.015	<0.015
8/23/2022	0.00653 (J)	<0.015	0.0498	0.00592 (J)	0.00532 (J)	<0.015
1/24/2023	0.00884 (J)	0.0053 (J)	0.0437	<0.015	<0.015	<0.015
8/31/2023			0.039	0.00649 (J)	0.00738 (J)	0.0073 (J)
2/12/2024			0.0389	<0.015	<0.015	<0.015
8/27/2024			0.0315	<0.015	<0.015	<0.015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.0052					
9/1/2016		<0.015				
9/6/2016						1.96
9/8/2016			1.03	1.63	1.35	
11/15/2016	0.0085 (J)	0.0123 (J)				
11/17/2016			1.7			
11/18/2016				1.91		
11/21/2016					1.74	1.68
2/20/2017	0.0093 (J)	0.0157 (J)				
2/21/2017			1.55	1.39		
2/22/2017					1.5	1.48
6/12/2017	<0.0052	<0.015				
6/13/2017			1.77	1.62		
6/14/2017					1.6	1.71
9/26/2017	<0.0052	<0.015				
9/27/2017			1.75	1.16	1.83	1.61
2/13/2018	<0.0052	<0.015				
2/14/2018			1.47	1.17	1.8	1.47
6/26/2018	0.0056 (J)	0.0041 (J)	1.8			
6/27/2018				1.4 (J+X)	1.8 (J+X)	
6/28/2018						1.4
12/18/2018	0.0062 (J)	<0.015	1.5		1.5	1.6
12/20/2018				1.4		
3/19/2019	<0.0052	<0.015		1.1		
3/20/2019			1.5 (D)		1.5	1.7
10/15/2019	0.006 (J)	0.01 (J)	1.2			
10/16/2019					1.2	
10/17/2019				0.97		1.7
12/4/2019				0.89		1.6
3/3/2020	<0.0052	<0.015				
3/4/2020			1.2	0.81	1.1	
3/5/2020						1.5
9/15/2020	<0.0052	<0.015	1.2		1.1	
9/16/2020				1.2		1.7
3/1/2021		<0.015				
3/2/2021	0.0071 (J)		1.1			
3/3/2021				0.91	1	1.4
9/21/2021	<0.0052					
9/22/2021		<0.015				
9/28/2021			1.1	0.95	0.9	1.7
2/1/2022	<0.0052	<0.015				
2/2/2022			1.1			1.9
2/3/2022					0.93	
2/4/2022				1		
8/23/2022	0.00538 (J)	<0.015	1.38			
8/24/2022					1.13	2.15
8/25/2022				1.03		
1/24/2023	<0.0052	<0.015				
1/25/2023				1.14		
1/26/2023			1.45		1.07	2.17
8/31/2023	0.00764 (J)	0.00611 (J)				
9/1/2023						2.05

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/6/2023			1.95	1.25	1.34	
2/12/2024	<0.0052	<0.015				2.36
2/14/2024			1.61	1.17	1.11	
8/27/2024	0.00538 (J)	<0.015		1.28	1.09	
8/28/2024						1.82
8/29/2024			2.04			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	1.28					
11/21/2016	1.19					
2/22/2017	1.43					
6/14/2017	1.57					
9/27/2017	1.51					
2/14/2018	1.6					
3/6/2018		0.0198 (J)	0.428		2.12	
5/1/2018		0.015 (J)	0.435 (D)		1.5	
6/27/2018	1.5 (J+X)		0.49 (J+X)			
6/28/2018		<0.04 (X)				
7/31/2018		0.035 (J)				
8/1/2018			0.39			
8/10/2018				1.3		
8/23/2018		0.022 (J)	0.39	1.4		
9/19/2018		0.021 (J)	0.43	1.7		
10/29/2018		0.021 (J)	0.4	1.3		
11/28/2018		<0.04 (X)	0.51	1.5		
12/19/2018	1.6		0.41			
12/20/2018		0.028 (J)		1.6		
1/17/2019				1.5		
2/13/2019				1.7		
3/19/2019			0.41			
3/20/2019	1.4	0.043		1.6 (D)		
10/16/2019			0.36	1.3		
10/17/2019	1.5	0.064				
12/3/2019		0.027 (J)				
12/4/2019	1.6					
3/4/2020			0.49	1.4		
3/5/2020	1.5	0.044 (J)				
9/16/2020	1.4	0.028 (J)	0.47			
9/17/2020				1.9		
3/2/2021		0.044	0.58			
3/4/2021	1.1			1.4		
9/23/2021		0.029 (J)	0.47			
9/28/2021	0.91			1.4	1.3	
2/2/2022	1	0.034 (J)	0.48	1.5	1.6	
2/4/2022						0.67
8/23/2022			0.547			
8/25/2022	1.07	0.0458		1.56	1.59	0.672
1/24/2023	1.11					
1/25/2023		0.0355		1.79	1.47	
1/26/2023			0.661			
1/30/2023						0.82
9/1/2023	1.13					
9/6/2023		0.0444	0.689	1.87		
9/8/2023					1.35	0.706
2/12/2024	1.23		0.618		1.27	
2/14/2024		0.0355				
2/16/2024				1.61		0.714
8/27/2024					1.16	
8/28/2024	0.996		0.508	1.44		
8/29/2024		0.0431				0.731

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.255		
9/6/2023		1.47	1.51
9/8/2023	0.318		
2/16/2024	0.384	1.32	1.36
8/27/2024		1.2	1.2
8/29/2024	0.404		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001				
9/6/2016			<0.001			
11/16/2016	<0.001	<0.001		<0.001	<0.001	<0.001
11/17/2016			<0.001			
2/20/2017						<0.001
2/21/2017	<0.001	<0.001	<0.001	<0.001	<0.001	
6/12/2017				<0.001		<0.001
6/13/2017		<0.001	<0.001		<0.001	
6/14/2017	<0.001					
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2018				<0.001	<0.001	<0.001
2/14/2018	<0.001	<0.001	<0.001			
6/26/2018	<0.001	<0.001	0.00015 (J)	<0.001	<0.001	<0.001
7/31/2018	<0.001	<0.001				
12/18/2018	<0.001	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
8/27/2019	<0.001	<0.001		<0.001	<0.001	<0.001
8/29/2019			<0.001			
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/3/2020	<0.001	<0.001		<0.001	<0.001	<0.001
3/4/2020			<0.001			
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2021				<0.001		
3/2/2021	<0.001	<0.001	<0.001		<0.001	<0.001
9/21/2021	<0.001	<0.001				<0.001
9/22/2021			<0.001	<0.001	<0.001	
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023			<0.001	<0.001	<0.001	<0.001
2/10/2024			<0.001	<0.001	<0.001	<0.001
8/27/2024			<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.001					
9/1/2016		<0.001				
9/6/2016						<0.001
9/8/2016			<0.001	7E-05 (J)	<0.001	
11/15/2016	<0.001	<0.001				
11/17/2016			<0.001			
11/18/2016				9E-05 (J)		
11/21/2016					<0.001	8E-05 (J)
2/20/2017	<0.001	<0.001				
2/21/2017			<0.001	<0.001		
2/22/2017					<0.001	<0.001
6/12/2017	<0.001	<0.001				
6/13/2017			<0.001	<0.001		
6/14/2017					<0.001	<0.001
9/26/2017	<0.001	<0.001				
9/27/2017			<0.001	<0.001	<0.001	<0.001
2/13/2018	<0.001	<0.001				
2/14/2018			<0.001	<0.001	<0.001	<0.001
6/26/2018	<0.001	<0.001	<0.001			
6/27/2018				<0.001	<0.001	
6/28/2018						<0.001
12/18/2018	<0.001	<0.001	<0.001		<0.001	<0.001
12/20/2018				<0.001		
8/27/2019	<0.001	<0.001	<0.001			<0.001
8/28/2019				<0.001	<0.001	
10/15/2019	<0.001	<0.001	<0.001			
10/16/2019					<0.001	
10/17/2019				<0.001		<0.001
12/4/2019				<0.001		<0.001
3/3/2020	<0.001	<0.001				
3/4/2020			<0.001	<0.001	<0.001	
3/5/2020						<0.001
8/18/2020	<0.001	<0.001				
8/19/2020			<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001		<0.001	
9/16/2020				<0.001		<0.001
3/1/2021		<0.001				
3/2/2021	<0.001		<0.001			
3/3/2021				<0.001	<0.001	<0.001
9/21/2021	<0.001					
9/22/2021		<0.001				
9/28/2021			<0.001	<0.001	<0.001	<0.001
2/1/2022	<0.001	<0.001				
2/2/2022			<0.001			0.00014 (J)
2/3/2022					<0.001	
2/4/2022				<0.001		
8/23/2022	<0.001	<0.001	<0.001			
8/24/2022					<0.001	<0.001
8/25/2022				<0.001		
1/24/2023	<0.001	<0.001				
1/25/2023				<0.001		
1/26/2023			<0.001		<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2023	<0.001	<0.001				<0.001
9/6/2023			<0.001	<0.001	<0.001	
2/10/2024	<0.001	<0.001				<0.001
2/13/2024			<0.001	<0.001	<0.001	
8/27/2024	<0.001	<0.001		<0.001	<0.001	
8/28/2024						<0.001
8/29/2024			<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.001					
11/21/2016	8E-05 (J)					
2/22/2017	0.0001 (J)					
6/14/2017	<0.001					
9/27/2017	<0.001					
2/14/2018	<0.001					
3/6/2018		<0.001	<0.001		<0.001	
5/1/2018		<0.001	<0.001 (D)		<0.001	
6/27/2018	0.00011 (J)		0.00014 (J)			
6/28/2018		<0.001				
7/31/2018		<0.001				
8/1/2018			0.00011 (J)			
8/10/2018				<0.001		
8/23/2018		<0.001	0.00018 (J)	<0.001		
9/19/2018		<0.001	0.00015 (J)	<0.001		
10/29/2018		9.8E-05 (J)	0.00019 (J)	<0.001		
11/28/2018		<0.001	0.00022 (J)	<0.001		
12/19/2018	<0.001 (X)		<0.001			
12/20/2018		<0.001 (X)		<0.001		
1/17/2019				<0.001		
2/13/2019				<0.001		
8/27/2019	<0.001					
8/28/2019		<0.001	0.00017 (J)			
8/29/2019				<0.001		
10/16/2019			0.00018 (J)	<0.001		
10/17/2019	<0.001	<0.001				
12/3/2019		0.00011 (J)				
12/4/2019	<0.001					
3/4/2020			0.00024 (J)	<0.001		
3/5/2020	<0.001	<0.001				
8/19/2020	<0.001					
8/20/2020		0.00014 (J)	<0.001	<0.001		
9/16/2020	<0.001	<0.001	<0.001			
9/17/2020				<0.001		
3/2/2021		0.0002 (J)	<0.001			
3/4/2021	<0.001			<0.001		
9/23/2021		<0.001	<0.001			
9/28/2021	<0.001			<0.001	<0.001	
2/2/2022	<0.001	<0.001	0.00015 (J)	<0.001	<0.001	
2/4/2022						<0.001
8/23/2022			<0.001			
8/25/2022	<0.001	<0.001		<0.001	<0.001	<0.001
1/24/2023	<0.001					
1/25/2023		<0.001		<0.001	<0.001	
1/26/2023			<0.001			
1/30/2023						<0.001
8/31/2023	<0.001					
9/6/2023		<0.001	<0.001	<0.001		
9/8/2023					<0.001	<0.001
2/10/2024	<0.001		<0.001		<0.001	
2/14/2024		<0.001		<0.001		<0.001
8/27/2024					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/28/2024	<0.001		<0.001	<0.001		
8/29/2024		<0.001				<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.001		
9/6/2023		<0.001	<0.001
9/8/2023	<0.001		
2/14/2024	<0.001	<0.001	<0.001
8/27/2024		<0.001	<0.001
8/29/2024	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				12.6	4.09	13.5
9/1/2016	8.98	4.61				
9/6/2016			12.8			
11/16/2016	15.4	4.17		12.1	4.25	14.9
11/17/2016			19.2			
2/20/2017						13.9
2/21/2017	17.4	5	15.1	11.4	4.02	
6/12/2017				9.34		13.7
6/13/2017		4.98	10.2		3.84	
6/14/2017	18.1					
9/26/2017	19.3	4.49	15	14.3	3.31	14.4
2/13/2018				<25	3.94	<25
2/14/2018	<25	<25	<25			
6/26/2018	15.5 (J)	6.4	18.5 (J)	16 (J)	3.6	13.5 (J)
7/31/2018	18.2 (J)	6.1				
12/18/2018	18.7 (J)	5.5	16.8 (J)	14.5 (J)	3.8	16.4 (J)
3/19/2019	15.9 (J)	5.9	13.5 (J)	14.3 (JD)	3.9	12.3 (J)
10/15/2019	15.9	6.2	8.6	15.1	3.7	14.4
3/3/2020	19.4	6.8		20	4	14.9
3/4/2020			11.5			
9/15/2020	14.5	5.7	10.7	14.1	3.9	12.7
3/1/2021				15.4		
3/2/2021	11.7	5.4	11.6		4	13.2
9/21/2021	16.4	5.4				14.1
9/22/2021			9.2	15.9	4.3	
2/1/2022	14.2	5.3	10.7	14.4	4.4	14.5
8/23/2022	15.8	6.09	8.09	13.9	4.65	14.3
1/24/2023	13.7	5.62	6.97	14.2	4.86	15.8
8/31/2023			5.95	12.6	5.02	14.3
2/12/2024			6.19	14.1	5.25	16
8/27/2024			5.88	12.4	5.45	15.9

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	19.6					
9/1/2016		3.3				
9/6/2016						63.3
9/8/2016			59.4	87.2	93.9	
11/15/2016	21.7	3.44				
11/17/2016			78.4			
11/18/2016				82.4		
11/21/2016					99.1	60.7
2/20/2017	21.1	3.52				
2/21/2017			80.9	75.1		
2/22/2017					105	62.1
6/12/2017	21.5	3.11				
6/13/2017			62	61		
6/14/2017					91.3	63.5
9/26/2017	24	3.15				
9/27/2017			65.8	72.6	84	63.5
2/13/2018	<25	3.65				
2/14/2018			58.8	74.1	72.1	62.8
6/26/2018	23.5 (J)	3.3	55.5			
6/27/2018				68.2	61.1	
6/28/2018						73.3
12/18/2018	19.8 (J)	3.5	54.7		52.9	102
12/20/2018				63.9		
3/19/2019	21.4 (J)	3.6		60.2		
3/20/2019			53.95 (D)		55.4	141
10/15/2019	20	3.5	48.3			
10/16/2019					54	
12/4/2019				76.8		92.6
3/3/2020	23.2	5				
3/4/2020			52	72.3	59.3	
3/5/2020						119
9/15/2020	16.8	3.7	40.1		55.1	
9/16/2020				62.5		106
3/1/2021		4.2				
3/2/2021	16.8		44.1			
3/3/2021				58.2	73.3	122
9/21/2021	19.1					
9/22/2021		4.1				
9/28/2021			38.4	50.4	59.5	212
2/1/2022	19.1	4.2				
2/2/2022			44.3			232
2/3/2022					58.7	
2/4/2022				61.7		
8/23/2022	18.2	3.97	51.5			
8/24/2022					61	316
8/25/2022				64		
1/24/2023	19.4	3.9				
1/25/2023				55.7		
1/26/2023			57.6		68	361
8/31/2023	14.9	3.79				
9/1/2023						414
9/6/2023			69.6	74.4	71.4	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
2/12/2024	18.2	4.27				441
2/14/2024			67.4	60	89.3	
8/27/2024	17.2	4.19		75.9	70.5	
8/28/2024						419
8/29/2024			77.6			

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	60.5					
11/21/2016	31.1					
2/22/2017	67.3					
6/14/2017	60.2					
9/27/2017	68.4					
2/14/2018	70.2					
3/6/2018		39.5	326		<25	
5/1/2018		45.5	302 (D)		<25	
6/27/2018	67.1		340			
6/28/2018		41.9				
7/31/2018		41.5				
8/1/2018			358			
8/10/2018				410 (O)		
8/23/2018		42.3	323	33.9		
9/19/2018		41.9	321	42.3		
10/29/2018		40.8	326	39.8		
11/28/2018		45.1	354	38.2		
12/19/2018	61.2		330			
12/20/2018		39		43.2		
1/17/2019				39.4		
2/13/2019				36.9		
3/19/2019			335			
3/20/2019	52.8	31.2		40.85 (D)		
10/16/2019			338	48.4		
12/3/2019		43.7				
12/4/2019	52.7					
3/4/2020			353	49.5		
3/5/2020	52.1	37.9				
9/16/2020	43.1	39.7	309			
9/17/2020				35.4		
3/2/2021		33.9	353			
3/4/2021	35.7			47.5		
9/23/2021		32	336			
9/28/2021	33.9			39.5	24.2	
2/2/2022	44.2	33.8	320	40.1	25.1	
2/4/2022						42.2
8/23/2022			323			
8/25/2022	48.5	33.5		38.3	27.2	45.1
1/24/2023	46.6					
1/25/2023		34.3		36.3	25.1	
1/26/2023			331			
1/30/2023						49.8
8/31/2023	45.1					
9/6/2023		34	347	37.4		
9/8/2023					26.5	56.8
2/12/2024	47.4		340		26	
2/14/2024		32.8		36.4		
2/16/2024						57.3
8/27/2024					24.9	
8/28/2024	37.4		302	36.8		
8/29/2024		42.9				65.6

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	86.1		
9/6/2023		69.2	47
9/8/2023	86.4		
2/16/2024	94.3	62.5	50.8
8/27/2024		68.8	49.8
8/29/2024	96.7		

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				2.3	2	4.4
9/1/2016	3.3	3.5				
9/6/2016			5.8			
11/16/2016	3.6	3.6		2	1.8	4.4
11/17/2016			4.3			
2/20/2017						4.8
2/21/2017	3.2	3.2	3.5	2	1.8	
6/12/2017				2.1		4.2
6/13/2017		3.3	3.2		1.7	
6/14/2017	3.1					
9/26/2017	3.3	3.3	3.5	2	1.8	4.4
2/13/2018				2.1	1.7	4.7
2/14/2018	3.1	3.5	3.8			
6/26/2018	3.4	3.4	3.8	2.4	2.2	4.5
7/31/2018	2.6	2.9				
12/18/2018	2.8	2.9	3.9	1.8	1.9	4.5
3/19/2019	3.2	3.5	3.8	2.45 (D)	2	4.5
10/15/2019	3.1	3.4	3.5	2.2	1.9	4.2
3/3/2020	2.6	3.2		1.9	1.9	3.9
3/4/2020			3.3			
9/15/2020	2.4	3.5	3.1	1.9	1.7	3.7
3/1/2021				1.8		
3/2/2021	2.6	3.7	3.5		1.7	3.8
9/21/2021	2.1	3.5				3.2
9/22/2021			2.8	1.7	1.5	
2/1/2022	2.2	3.6	3.2	1.8	1.6	3.5
8/23/2022	2.5	5.46	3.16	2.02	2.18	3.64
1/24/2023	2.49	3.79	2.88	2.09	2.16	3.93
8/23/2023			2.41	1.9	2.14	3.53
1/31/2024				2.35	2.14	3.98
2/1/2024			2.4			
8/27/2024			2.16	2.16	2.17	3.88

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	3.6					
9/1/2016		2.5				
9/6/2016						6.7
9/8/2016			5.5	6	6.4	
11/15/2016	4	2.3				
11/17/2016			7.7			
11/18/2016				6.3		
11/21/2016					6.9	6.5
2/20/2017	3.9	2.4				
2/21/2017			7.3	5.1		
2/22/2017					6.2	5.6
6/12/2017	3.8	2.2				
6/13/2017			7.5	4.7		
6/14/2017					7.2	5.7
9/26/2017	4.1	2.3				
9/27/2017			7.9	4.9	8.7	6
2/13/2018	4.1	2.3				
2/14/2018			6.7	5.6	7.2	5.9
6/26/2018	4.1	2.6	6.7			
6/27/2018				5.9	6.3	
6/28/2018						7 (J-X)
12/18/2018	3.8	2.3	6.2		5.4	5.8
12/20/2018				5.6 (J-X)		
3/19/2019	4.2	2.6		5.8		
3/20/2019			6.3 (D)		5.6	5.8
10/15/2019	3.7	2.4	5			
10/16/2019					6.9	
12/4/2019				5.6		5
3/3/2020	3.6	2.9				
3/4/2020			5	5.1	5.8	
3/5/2020						4.3
9/15/2020	3.7	2.3	4.9		5.5	
9/16/2020				5.4		4.4
3/1/2021		2.1				
3/2/2021	3.7		4.5			
3/3/2021				4.5	5.6	4
9/21/2021	3.2					
9/22/2021		2.1				
9/28/2021			4.2	3.7	5.4	3.4
2/1/2022	3.4	2.1				
2/2/2022			4.2			4
2/3/2022					6.1	
2/4/2022				4.6		
8/23/2022	3.59	2.39	5.38			
8/24/2022					5.84	4.91
8/25/2022				4.65		
1/24/2023	3.56	2.3				
1/25/2023				3.81		
1/26/2023			6.96		5.59	3.82
8/23/2023	3.37	2.34				3.35
8/25/2023			8.47	4.81	6.08	
1/31/2024	3.52	3.23				

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
2/1/2024			8.73	4.05	7.94	3.52
8/27/2024	3.49	2.28		4.47	8.87	
8/28/2024						3.48
8/29/2024			13.7			

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	6.8					
11/21/2016	7.8					
2/22/2017	7					
6/14/2017	7.1					
9/27/2017	7.2					
2/14/2018	7.4					
3/6/2018		56.6	8.4		6	
5/1/2018		58.5	5.7 (JXD)		6	
6/27/2018	7.1		4.4			
6/28/2018		50.2 (J-X)				
7/31/2018		59				
8/1/2018			5.2			
8/10/2018				6.9		
8/23/2018		54	3.6	7.5		
9/19/2018		58.4	4.1	6.6		
10/29/2018		62.6	4.3	7.8		
11/28/2018		58.1	5.1	7.2		
12/19/2018	7 (J-X)		4.5 (J-X)			
12/20/2018		47.2 (J-X)		6.6 (J-X)		
1/17/2019				6.4		
2/13/2019				6.5		
3/19/2019			4.7			
3/20/2019	7.3	27.7		6.7 (D)		
10/16/2019			4.6	7		
12/3/2019		52.8				
12/4/2019	6.6					
3/4/2020			4.2	6.1		
3/5/2020	6	37.1				
9/16/2020	5.6	54.9	4.1			
9/17/2020				6.3		
3/2/2021		25.8	4.8			
3/4/2021	4.6			5.6		
9/23/2021		29.3	4.3			
9/28/2021	3.6			5.5	5	
2/2/2022	3.8	23.4	4.2	6.1	5.5	
2/4/2022						6.2
8/23/2022			4.49			
8/25/2022	3.96	14.9		6.27	6.28	6.15
1/24/2023	4.49					
1/25/2023		27.4		6.35	5.84	
1/26/2023			4.96			
1/30/2023						7.18
8/23/2023	4.3					
8/24/2023					6.83	6.81
8/25/2023			4.67	6.28		
8/26/2023		16.5				
1/31/2024	4.1					
2/1/2024			4.74		6.36	
2/2/2024				6.3		7.16
2/9/2024		17.2				
8/27/2024					5.99	
8/28/2024	4.09		4.57	6.58		

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/29/2024		24.8				6.86

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	12.7		
8/25/2023	23		6.84
8/26/2023		14.8	
2/2/2024			7.21
2/3/2024	19.9	18.1	
8/27/2024		27.1	6.31
8/29/2024	18.1		

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				0.001 (J)	0.0034 (J)	0.0058 (J)
9/1/2016	0.0009 (J)	0.0013 (J)				
9/6/2016			<0.01			
11/16/2016	0.0015 (J)	0.0012 (J)		<0.01	0.0029 (J)	0.0051 (J)
11/17/2016			<0.01			
2/20/2017						0.0049 (J)
2/21/2017	0.001 (J)	0.0017 (J)	<0.01	<0.01	0.0036 (J)	
6/12/2017				0.0005 (J)		0.0052 (J)
6/13/2017		0.0019 (J)	<0.01		0.0038 (J)	
6/14/2017	0.0012 (J)					
9/26/2017	0.0014 (J)	0.0018 (J)	<0.01	0.0005 (J)	0.0045 (J)	0.0039 (J)
2/13/2018				<0.01	<0.01	<0.01
2/14/2018	<0.01	<0.01	<0.01			
6/26/2018	<0.01	0.0022 (J)	<0.01	<0.01	0.008 (J)	0.0053 (J)
12/18/2018	0.0016 (J)	0.0022 (J)	<0.01	<0.01	0.012	0.0032 (J)
8/27/2019	0.0023 (J)	0.0024 (J)		0.0004 (J)	0.0083 (J)	0.0055 (J)
8/29/2019			0.0016 (J)			
10/15/2019	0.0021 (J)	0.0023 (J)	0.0017 (J)	<0.01	0.0083 (J)	0.0047 (J)
3/3/2020	0.0026 (J)	0.0028 (J)		0.00047 (J)	0.0098 (J)	0.0069 (J)
3/4/2020			0.0019 (J)			
8/18/2020	0.0023 (J)	0.0029 (J)	0.0017 (J)	0.00096 (J)	0.0085 (J)	0.0069 (J)
9/15/2020	0.00096 (J)	0.0025 (J)	0.0019 (J)	<0.01	0.0082 (J)	0.0069 (J)
3/1/2021				<0.01		
3/2/2021	0.002 (J)	0.0021 (J)	0.002 (J)		0.0074	0.0064
9/21/2021	0.0023 (J)	0.0024 (J)				0.0064
9/22/2021			0.0026 (J)	<0.01	0.0091	
2/1/2022	0.0027 (J)	0.0029 (J)	0.0028 (J)	0.0013 (J)	0.0092	0.0066
8/23/2022	<0.01	<0.01	<0.01	<0.01	0.00908 (J)	0.00647 (J)
1/24/2023	<0.01	<0.01	<0.01	<0.01	0.0095 (J)	0.00513 (J)
8/31/2023			<0.01	<0.01	0.00921 (J)	0.00701 (J)
2/10/2024			<0.01	0.00458 (J)	0.00854 (J)	0.00551 (J)
8/27/2024			<0.01	0.00445 (J)	0.00799 (J)	0.00521 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	0.0028 (J)					
9/1/2016		0.0147				
9/6/2016						<0.01
9/8/2016			<0.01	0.001 (J)	<0.01	
11/15/2016	0.003 (J)	0.0154 (B)				
11/17/2016			<0.01			
11/18/2016				<0.01		
11/21/2016					<0.01	<0.01
2/20/2017	0.0047 (J)	0.014				
2/21/2017			<0.01	<0.01		
2/22/2017					<0.01	<0.01
6/12/2017	0.0041 (J)	0.016				
6/13/2017			<0.01	<0.01		
6/14/2017					<0.01	<0.01
9/26/2017	0.0037 (J)	0.0144				
9/27/2017			<0.01	<0.01	<0.01	<0.01
2/13/2018	<0.01	0.0144				
2/14/2018			<0.01	<0.01	<0.01	<0.01
6/26/2018	0.0043 (J)	0.015	<0.01			
6/27/2018				<0.01	<0.01	
6/28/2018						<0.01
12/18/2018	0.0054 (J)	0.015	<0.01		<0.01	<0.01
12/20/2018				0.003 (J)		
8/27/2019	0.0043 (J)	0.015	0.0016 (J)			0.0051 (J)
8/28/2019				<0.01	<0.01	
10/15/2019	0.0055 (J)	0.014	0.00098 (J)			
10/16/2019					<0.01	
12/4/2019				<0.01		<0.01
3/3/2020	0.0057 (J)	0.011				
3/4/2020			<0.01	<0.01	0.02	
3/5/2020						<0.01
8/18/2020	0.005 (J)	0.015				
8/19/2020			<0.01	<0.01	<0.01	<0.01
9/15/2020	0.0048 (J)	0.014	<0.01		<0.01	
9/16/2020				<0.01		0.014
3/1/2021		0.011				
3/2/2021	0.0044 (J)		<0.01			
3/3/2021				<0.01	<0.01	<0.01
9/21/2021	0.0044 (J)					
9/22/2021		0.014				
9/28/2021			<0.01	<0.01	<0.01	<0.01
2/1/2022	0.0052	0.015				
2/2/2022			<0.01			<0.01
2/3/2022					<0.01	
2/4/2022				<0.01		
8/23/2022	0.00435 (J)	0.0143	<0.01			
8/24/2022					<0.01	<0.01
8/25/2022				<0.01		
1/24/2023	0.00572 (J)	0.0139				
1/25/2023				<0.01		
1/26/2023			<0.01		<0.01	<0.01
8/31/2023	0.00472 (J)	0.0132				<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/6/2023			<0.01	<0.01	<0.01	
2/10/2024	0.00582 (J)	0.0139				<0.01
2/13/2024			<0.01	<0.01	<0.01	
8/27/2024	0.00604 (J)	0.0124		<0.01	<0.01	
8/28/2024						<0.01
8/29/2024			<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.01					
11/21/2016	<0.01					
2/22/2017	0.0012 (J)					
6/14/2017	0.0009 (J)					
9/27/2017	0.0011 (J)					
2/14/2018	<0.01					
3/6/2018		<0.01	<0.01		<0.01	
5/1/2018		<0.01	<0.01 (D)		<0.01	
6/27/2018	<0.01		<0.01			
6/28/2018		<0.01				
7/31/2018		<0.01				
8/1/2018			<0.01			
8/10/2018				0.0017 (J)		
8/23/2018		<0.01	<0.01	<0.01		
9/19/2018		<0.01	<0.01	<0.01		
10/29/2018		<0.01	<0.01	<0.01		
11/28/2018		<0.01	<0.01	<0.01		
12/19/2018	<0.01		0.0018 (J)			
12/20/2018		<0.01		<0.01		
1/17/2019				<0.01		
2/13/2019				<0.01		
8/27/2019	0.0019 (J)					
8/28/2019		<0.01	0.00092 (J)			
8/29/2019				<0.01		
10/16/2019			<0.01	<0.01		
12/3/2019		<0.01				
12/4/2019	0.0014 (J)					
3/4/2020			0.00078 (J)	<0.01		
3/5/2020	0.0014 (J)	0.00053 (J)				
8/19/2020	0.0021 (J)					
8/20/2020		0.001 (J)	0.00064 (J)	<0.01		
9/16/2020	0.0025 (J)	0.0014 (J)	<0.01			
9/17/2020				<0.01		
3/2/2021		<0.01	<0.01			
3/4/2021	0.002 (J)			<0.01		
9/23/2021		<0.01	<0.01			
9/28/2021	0.0021 (J)			<0.01	<0.01	
2/2/2022	0.0021 (J)	<0.01	<0.01	<0.01	<0.01	
2/4/2022						<0.01
8/23/2022			<0.01			
8/25/2022	<0.01	<0.01		<0.01	<0.01	<0.01
1/24/2023	<0.01					
1/25/2023		<0.01		<0.01	<0.01	
1/26/2023			<0.01			
1/30/2023						<0.01
8/31/2023	<0.01					
9/6/2023		<0.01	<0.01	<0.01		
9/8/2023					<0.01	<0.01
2/10/2024	<0.01		<0.01		<0.01	
2/14/2024		<0.01		<0.01		<0.01
8/27/2024					<0.01	
8/28/2024	<0.01		<0.01	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/29/2024		<0.01				<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.01		
9/6/2023		<0.01	<0.01
9/8/2023	<0.01		
2/14/2024	<0.01	<0.01	<0.01
8/27/2024		<0.01	<0.01
8/29/2024	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				0.0016 (J)	0.0034 (J)	0.0013 (J)
9/1/2016	<0.001	<0.001				
9/6/2016			0.0028 (J)			
11/16/2016	<0.001	<0.001		0.0006 (J)	0.003 (J)	<0.01 (o)
11/17/2016			0.0072 (J)			
2/20/2017						0.0012 (J)
2/21/2017	<0.001	<0.001	0.0045 (J)	<0.005	0.0028 (J)	
6/12/2017				<0.005		0.0011 (J)
6/13/2017		<0.001	0.0036 (J)		0.0025 (J)	
6/14/2017	<0.001					
9/26/2017	<0.001	<0.001	0.0037 (J)	<0.005	0.002 (J)	0.0016 (J)
2/13/2018				<0.005	<0.005	<0.01 (o)
2/14/2018	<0.001	<0.001	0.0135			
6/26/2018	<0.001	<0.001	0.0098 (J)	<0.005	0.0019 (J)	0.0009 (J)
7/31/2018	<0.001	<0.001				
12/18/2018	<0.001	<0.001	0.0057 (J)	<0.005	0.0032 (J)	0.00062 (J)
8/27/2019	<0.001	<0.001		<0.005	0.0012 (J)	0.00068 (J)
8/29/2019			0.0015 (J)			
10/15/2019	<0.001	<0.001	0.0011 (J)	<0.005	0.00097 (J)	0.00083 (J)
3/3/2020	<0.001	<0.001		<0.005	0.0015 (J)	0.00043 (J)
3/4/2020			0.0012 (J)			
8/18/2020	<0.001	<0.001	0.00067 (J)	<0.005	0.0014 (J)	0.00048 (J)
9/15/2020	<0.001	<0.001	0.00076 (J)	<0.005	0.001 (J)	0.0005 (J)
3/1/2021				<0.005		
3/2/2021	<0.001	<0.001	<0.001		0.001 (J)	0.00053 (J)
9/21/2021	<0.001	<0.001				0.00071 (J)
9/22/2021			<0.001	0.0015 (J)	<0.005	
2/1/2022	<0.001	<0.001	0.00052 (J)	0.00079 (J)	0.0011 (J)	0.0007 (J)
8/23/2022	<0.001	<0.001	0.000308 (J)	0.000767 (J)	0.000844 (J)	0.000553 (J)
1/24/2023	<0.001	<0.001	<0.001	0.00154	0.000829 (J)	0.000677 (J)
8/31/2023			<0.001	0.000707 (J)	0.000707 (J)	0.000474 (J)
2/10/2024			<0.001	0.0014	0.000962 (J)	0.000555 (J)
8/27/2024			<0.001	0.00105	0.000772 (J)	0.000396 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.001					
9/1/2016		<0.001				
9/6/2016						0.0006 (J)
9/8/2016			0.0073 (J)	0.0149	0.0122	
11/15/2016	<0.001	<0.001				
11/17/2016			0.0086 (J)			
11/18/2016				0.0131		
11/21/2016					0.0122	<0.04
2/20/2017	0.0009 (J)	<0.001				
2/21/2017			0.0079 (J)	0.0099 (J)		
2/22/2017					0.0136	0.0016 (J)
6/12/2017	0.0006 (J)	0.0003 (J)				
6/13/2017			0.0083 (J)	0.0094 (J)		
6/14/2017					0.0113	0.0015 (J)
9/26/2017	0.0005 (J)	0.0003 (J)				
9/27/2017			0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)
2/13/2018	<0.001	<0.001				
2/14/2018			<0.01	0.0112	<0.01	<0.04
6/26/2018	0.00052 (J)	<0.001	0.006 (J)			
6/27/2018				0.0093 (J)	0.0069 (J)	
6/28/2018						0.00078 (J)
12/18/2018	<0.001	<0.001	0.0055 (J)		0.0067 (J)	0.0011 (J)
12/20/2018				0.0081 (J)		
8/27/2019	0.00042 (J)	<0.001	0.0042 (J)			0.0014 (J)
8/28/2019				0.01	0.0061	
10/15/2019	<0.001	<0.001	0.0043 (J)			
10/16/2019					0.0058	
10/17/2019				0.011 (J)		<0.04
12/4/2019				0.0086		0.0012 (J)
3/3/2020	<0.001	0.0011 (J)				
3/4/2020			0.0039 (J)	0.008	0.007	
3/5/2020						0.0011 (J)
8/18/2020	<0.001	0.00061 (J)				
8/19/2020			0.0039 (J)	0.0078	0.0065	0.0008 (J)
9/15/2020	<0.001	<0.001	0.0035 (J)		0.0064	
9/16/2020				0.008		0.0008 (J)
3/1/2021		<0.001				
3/2/2021	<0.001		0.003 (J)			
3/3/2021				0.0062	0.0095	0.0015 (J)
9/21/2021	<0.001					
9/22/2021		0.00078 (J)				
9/28/2021			0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)
2/1/2022	<0.001	<0.001				
2/2/2022			0.0027 (J)			0.0012 (J)
2/3/2022					0.0077	
2/4/2022				0.0076		
8/23/2022	<0.001	<0.001	0.00342			
8/24/2022					0.0066	0.00163
8/25/2022				0.0079		
1/24/2023	<0.001	<0.001				
1/25/2023				0.00711		
1/26/2023			0.0032		0.00823	0.00158

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2023	0.000327 (J)	<0.001				0.00183
9/6/2023			0.00343	0.00601	0.00724	
2/10/2024	<0.001	<0.001				0.00179
2/13/2024			0.00254	0.00392	0.00874	
8/27/2024	<0.001	<0.001		0.00566	0.00574	
8/28/2024						0.00149
8/29/2024			0.00319			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	0.0025 (J)					
11/21/2016	0.001 (J)					
2/22/2017	<0.001					
6/14/2017	<0.001					
9/27/2017	<0.001					
2/14/2018	<0.001					
3/6/2018		0.0162	<0.001		<0.001	
5/1/2018		0.015	0.0125 (D)		<0.001	
6/27/2018	<0.001		0.0076 (J)			
6/28/2018		0.01				
7/31/2018		0.0098 (J)				
8/1/2018			0.004 (J)			
8/10/2018				0.0043 (J)		
8/23/2018		0.0093 (J)	0.0016 (J)	0.0026 (J)		
9/19/2018		0.0084 (J)	0.0018 (J)	0.0028 (J)		
10/29/2018		0.0064 (J)	0.0014 (J)	0.0015 (J)		
11/28/2018		0.0071 (J)	0.0016 (J)	0.0012 (J)		
12/19/2018	<0.001		0.0014 (J)			
12/20/2018		0.069		<0.001		
1/17/2019				<0.001		
2/13/2019				<0.001		
8/27/2019	<0.001					
8/28/2019		0.011	0.00037 (J)			
8/29/2019				0.00063 (J)		
10/16/2019			0.00032 (J)	<0.001		
10/17/2019	<0.001	0.0098 (J)				
12/3/2019		0.0076				
12/4/2019	<0.001					
3/4/2020			0.0011 (J)	<0.001		
3/5/2020	<0.001	0.0091				
8/19/2020	<0.001					
8/20/2020		0.022	0.00043 (J)	<0.001		
9/16/2020	<0.001	0.0049 (J)	0.00053 (J)			
9/17/2020				0.00046 (J)		
3/2/2021		0.0057	0.0005 (J)			
3/4/2021	<0.001			<0.001		
9/23/2021		0.0049 (J)	<0.001			
9/28/2021	<0.001			<0.001	<0.001	
2/2/2022	<0.001	0.0054	<0.001	<0.001	<0.001	
2/4/2022						0.019
8/23/2022			<0.001			
8/25/2022	<0.001	0.00357		<0.001	<0.001	0.0232
1/24/2023	<0.001					
1/25/2023		0.00258		<0.001	<0.001	
1/26/2023			0.000376 (J)			
1/30/2023						0.028
8/31/2023	<0.001					
9/6/2023		0.00221	<0.001	0.000317 (J)		
9/8/2023					<0.001	0.0309
2/10/2024	<0.001		<0.001		0.000408 (J)	
2/14/2024		0.00181		0.00042 (J)		0.0299
8/27/2024					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/28/2024	<0.001		<0.001	<0.001		
8/29/2024		0.00203				0.0335

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.000825 (J)		
9/6/2023		0.00059 (J)	0.00105
9/8/2023	0.00106		
2/14/2024	0.000852 (J)	0.000829 (J)	0.000519 (J)
8/27/2024		<0.001	<0.001
8/29/2024	0.000526 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				0.351 (U)	1 (U)	0.62 (U)
9/1/2016	0.428 (U)	0.566 (U)				
9/6/2016			0.585 (U)			
11/16/2016	0.799 (U)	0.863 (U)		0.824 (U)	0.43 (U)	0.493 (U)
11/17/2016			0.804 (U)			
2/20/2017						0.534 (U)
2/21/2017	1.75 (U)	0.318 (U)	0.595 (U)	1.01 (U)	0.96 (U)	
6/12/2017				0.532 (U)		0.254 (U)
6/13/2017		0.163 (U)	0.618 (U)		0.645 (U)	
6/14/2017	2.66					
9/26/2017	0.841 (U)	0.56 (U)	1.26 (U)	0.845 (U)	0.299 (U)	0.62 (U)
2/13/2018				0.176 (U)	1.01 (U)	0.0914 (U)
2/14/2018	1.13 (UX)	0.537 (U)	1.2 (U)			
6/26/2018	1.42 (J+X)	1.31 (UX)	1.34 (U)	1.02 (U)	1.26 (J+X)	1.11 (U)
12/18/2018	0.855 (U)	1.31 (J+X)	1.13 (U)	0.487 (U)	0.44 (U)	0.42 (U)
8/27/2019	1.31	1.32		1.11	1.47	1.19
8/29/2019			1.45 (U)			
10/15/2019	1.13 (U)	1.05 (U)	1.69	1.02 (U)	0.807 (U)	0.714 (U)
3/3/2020	1.29 (U)	1.68		1.18 (U)	0.818 (U)	0.996 (U)
3/4/2020			1.45			
8/18/2020	0.988 (U)	0.969 (U)	0.784 (U)	0.0861 (U)	1.22 (U)	0.53 (U)
9/15/2020	0.762 (U)	0.359 (U)	1.04 (U)	0.0583 (U)	0.579 (U)	0.215 (U)
3/1/2021				0.127 (U)		
3/2/2021	0.901	0.925	1.12		0.342 (U)	0.409 (U)
9/21/2021	1.33	0.468 (U)				0.182 (U)
9/22/2021			1.4	0.349 (U)	1.33 (U)	
2/1/2022	0.833 (U)	0.659 (U)	1.15	0.233 (U)	0.251 (U)	1.23
8/23/2022	0.558	1.69	1.59	1.7	0.531	2.3
1/24/2023	1.49 (U)	3.07	5.62	2.05 (U)	1.35 (U)	0.811 (U)
9/22/2023			2.16	0.857 (U)	0.592 (U)	1.36
2/27/2024			0.605 (U)	1.25	2.54	1.48 (U)
8/27/2024			2.43	0.864 (U)	1.4 (U)	3.62

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	0.603 (U)					
9/1/2016		1.33				
9/6/2016						1.01 (U)
9/8/2016			0.862 (U)	1.74	1.13	
11/15/2016	0.645 (U)	0.412 (U)				
11/17/2016			1.2 (U)			
11/18/2016				0.571 (U)		
11/21/2016					1.59	0.201 (U)
2/20/2017	1.36	0.633 (U)				
2/21/2017			1.31	1.28 (U)		
2/22/2017					1.64	0.57 (U)
6/12/2017	0.566 (U)	0.112 (U)				
6/13/2017			0.738 (U)	0.521 (U)		
6/14/2017					1.32	0.726 (U)
9/26/2017	0.762 (U)	0.167 (U)				
9/27/2017			0.583 (U)	0.595 (U)	1.7	0.884 (U)
2/13/2018	0.349 (U)	0.347 (U)				
2/14/2018			1.41 (J+X)	1.18 (U)	1.89 (J+X)	1.14 (U)
6/26/2018	0.614 (U)	0.903 (U)	0.968 (U)			
6/27/2018				1.3 (U)	1.66 (J+X)	
6/28/2018						1.4 (UX)
12/18/2018	0.445 (U)	0.353 (U)	1.13 (U)		0.759 (U)	0.661 (U)
12/20/2018				0.527 (U)		
8/27/2019	1.44	0.65 (U)	0.91 (U)			1.35
8/28/2019				0.643 (U)	1.76	
10/15/2019	0.467 (U)	0.402 (U)	1.06 (U)			
10/16/2019					1.69 (U)	
10/17/2019				1.07 (U)		1.25 (U)
3/3/2020	1.5	0.397 (U)				
3/4/2020			1.34	1.18	1.23	
3/5/2020						1.35
8/18/2020	0.581 (U)	0.453 (U)				
8/19/2020			0.467 (U)	0.684 (U)	0.876 (U)	1 (U)
9/15/2020	0.55 (U)	0.474 (U)	0.205 (U)		1.23 (U)	
9/16/2020				0.175 (U)		0.43 (U)
3/1/2021		0.215 (U)				
3/2/2021	0.362 (U)		0.161 (U)			
3/3/2021				0.829 (U)	1.31 (U)	0.415 (U)
9/21/2021	0.86 (U)					
9/22/2021		0.943 (U)				
9/28/2021			4.44	3.58	1.49	0.749 (U)
2/1/2022	0.23 (U)	0.349 (U)				
2/2/2022			0.64 (U)			1.21 (U)
2/3/2022					0.798 (U)	
2/4/2022				0.335 (U)		
8/23/2022	0.735	0.203	1.9			
8/24/2022					1.97	3.26
8/25/2022				1.79		
1/24/2023	0.402 (U)	1.55 (U)				
1/25/2023				1.53 (U)		
1/26/2023			3.24		2.27 (U)	2.73 (U)
9/22/2023	1.31 (U)	1.89 (U)				2.71

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/26/2023			1.21 (U)	2.23	3.02	
2/27/2024	0 (U)	1.29				4.11
2/28/2024			3.78	1.49 (U)	3.01	
8/27/2024	0.236 (U)	1.64		2.41	2.39	
8/28/2024						3.82
8/29/2024			6.24			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	0.706 (U)					
11/21/2016	0.0569 (U)					
2/22/2017	1.07 (U)					
6/14/2017	0.459 (U)					
9/27/2017	0.807 (U)					
2/14/2018	1.67 (J+X)					
3/6/2018		1.25 (U)	1.75 (J+X)		0.577 (U)	
5/1/2018		0.423 (U)	2.02 (J+XD)		0.27 (U)	
6/27/2018	1.34 (UX)		0.878 (U)			
6/28/2018		0.283 (U)				
7/31/2018		0.243 (U)				
8/1/2018			0.638 (U)			
8/10/2018				1.91		
8/23/2018		1.1 (U)	1.14 (U)	1.86 (J+X)		
9/19/2018		0.369 (U)	1.45 (UX)	1.64 (UX)		
10/29/2018		0.401 (U)	1.09 (U)	1.36 (U)		
11/28/2018		0.901 (U)	1.67 (UX)	1.07 (U)		
12/19/2018	1.21 (U)		1.3			
12/20/2018		0.657 (U)		0.892 (U)		
1/17/2019				1.1 (U)		
2/13/2019				1.68		
8/27/2019	0.86 (U)					
8/28/2019		0.528 (U)	0.804 (U)			
8/29/2019				1.44		
10/16/2019			1.28 (U)	2.13		
10/17/2019	1.2 (U)	0.977 (U)				
3/4/2020			0.862 (U)	2.3		
3/5/2020	0.483 (U)	0.921 (U)				
8/19/2020	0.482 (U)					
8/20/2020		0.501 (U)	1.64	2.97		
9/16/2020	0.195 (U)	0.254 (U)	0.51 (U)			
9/17/2020				2.04		
3/2/2021		0.107 (U)	0.571 (U)			
3/4/2021	0.32 (U)			2.04		
9/23/2021		0.619 (U)	0.527 (U)			
9/28/2021	0.947 (U)			3.28	0.526 (U)	
2/2/2022	0.0265 (U)	0.219 (U)	0.145 (U)	2.33	0.244 (U)	
2/4/2022						0.768
8/23/2022			3.74			
8/25/2022	1.32	1.65		4.97	1.6	1.52
1/24/2023	2.25					
1/25/2023		1.29 (U)		7.94	2.49 (U)	
1/26/2023			3.28			
1/30/2023						6.03
9/22/2023	2.33				0.477 (U)	2.31
9/26/2023		0.607 (U)	2.39	6.36		
2/27/2024	0.572 (U)		2.63		2.87	
2/29/2024		1.22 (U)		4.51		1.52 (U)
8/27/2024					2.84	
8/28/2024	0.737 (U)			14.7		
8/29/2024		1.71	1.32 (U)			4.48

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	4.16		
9/22/2023	1.62		
9/26/2023		0.811 (U)	3.11
2/29/2024	2.16	0.912 (U)	2.19
8/27/2024		0.997 (U)	2.81
8/29/2024	5.43		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				0.11 (J)	0.05 (J)	0.07 (J)
9/1/2016	0.2 (J)	0.05 (J)				
9/6/2016			0.42			
11/16/2016	0.14 (J)	0.03 (J)		0.08 (J)	0.07 (J)	0.07 (J)
11/17/2016			0.15 (J)			
2/20/2017						0.06 (J)
2/21/2017	0.16 (J)	0.04 (J)	0.1 (J)	0.14 (J)	0.05 (J)	
6/12/2017				0.16 (J)		0.008 (J)
6/13/2017		0.008 (J)	0.07 (J)		0.04 (J)	
6/14/2017	0.09 (J)					
9/26/2017	0.1 (J)	<0.1	<0.1	0.14 (J)	<0.1	<0.1
2/13/2018				<0.033	<0.1	<0.1
2/14/2018	<0.3	<0.1	<0.1			
6/26/2018	0.079 (J)	0.042 (J)	0.053 (J)	0.085 (J)	0.048 (J)	0.045 (J)
12/18/2018	<0.3	<0.1	<0.1	0.085 (J)	<0.1	<0.1
3/19/2019	<0.3	<0.1	<0.1	0.0655 (JD)	0.037 (J)	<0.1
8/27/2019	<0.3	<0.1		<0.033	<0.1	<0.1
8/29/2019			0.084 (J)			
10/15/2019	0.047 (J)	<0.1	<0.1	<0.033	<0.1	<0.1
3/3/2020	0.056 (J)	<0.1		0.066 (J)	0.05 (J)	<0.1
3/4/2020			<0.1			
8/18/2020	0.052 (J)	<0.1	<0.1	<0.033	<0.1	<0.1
9/15/2020	0.062 (J)	<0.1	<0.1	<0.033	<0.1	<0.1
3/1/2021				<0.033		
3/2/2021	0.061 (J)	<0.1	<0.1		<0.1	<0.1
9/21/2021	0.071 (J)	<0.1				<0.1
9/22/2021			0.069 (J)	<0.033	<0.1	
2/1/2022	0.055 (J)	<0.1	<0.1	<0.033	<0.1	<0.1
8/23/2022	0.151	0.129	0.157	<0.033	<0.1	<0.1
1/24/2023	0.214	0.0926 (J)	0.231	<0.033	<0.1	0.149
8/23/2023			0.114	0.267	0.229	0.289
1/31/2024				<0.033	0.184	0.232
2/1/2024			0.275			
8/27/2024			0.204	0.0342 (J)	0.0426 (J)	0.0365 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	0.19 (J)					
9/1/2016		0.06 (J)				
9/6/2016						0.43
9/8/2016			0.14 (J)	0.31	0.2 (J)	
11/15/2016	0.13 (J)	0.06 (J)				
11/17/2016			0.27 (J)			
11/18/2016				0.19 (J)		
11/21/2016					0.37	0.24 (J)
2/20/2017	0.08 (J)	0.04 (J)				
2/21/2017			0.6	0.35		
2/22/2017					0.37	0.2 (J)
6/12/2017	0.07 (J)	0.06 (J)				
6/13/2017			0.19 (J)	0.19 (J)		
6/14/2017					0.38	0.15 (J)
9/26/2017	0.04 (J)	<0.1				
9/27/2017			0.5	0.4	0.4	0.41
2/13/2018	<0.1	<0.1				
2/14/2018			<0.3	<0.3	<0.3	<0.3
6/26/2018	0.072 (J)	0.041 (J)	0.15 (J)			
6/27/2018				0.26 (J)	0.085 (J)	
6/28/2018						0.93 (J+X)
12/18/2018	<0.1	<0.1	0.29 (J)		0.26 (J)	0.54
12/20/2018				0.26 (J)		
3/19/2019	0.06 (J)	0.03 (J)		0.2 (J)		
3/20/2019			0.17 (JD)		0.091 (J)	0.31
8/27/2019	<0.1	<0.1	0.15 (J)			0.12 (J)
8/28/2019				0.074 (J)	0.055 (J)	
10/15/2019	0.045 (J)	<0.1	0.16 (J)			
10/16/2019					0.11 (J)	
12/4/2019				0.18 (J)		0.26 (J)
3/3/2020	0.057 (J)	0.09 (J)				
3/4/2020			0.07 (J)	<0.3	<0.3	
3/5/2020						0.051 (J)
8/18/2020	<0.1	<0.1				
8/19/2020			0.17	0.19	0.12	0.14
9/15/2020	0.051 (J)	<0.1	0.15		0.057 (J)	
9/16/2020				0.15		0.13
3/1/2021		<0.1				
3/2/2021	<0.1		0.15			
3/3/2021				0.24	0.13	0.13
9/21/2021	0.056 (J)					
9/22/2021		<0.1				
9/28/2021			0.15	0.16	0.081 (J)	0.11
2/1/2022	<0.1	<0.1				
2/2/2022			0.15			0.1
2/3/2022					0.11	
2/4/2022				0.14		
8/23/2022	<0.1	<0.1	0.186			
8/24/2022					0.103	0.318
8/25/2022				0.234		
1/24/2023	0.158	0.12				
1/25/2023				0.152		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
1/26/2023			0.202		0.0935 (J)	0.167
8/23/2023	0.277	0.0787 (J)				0.116
8/25/2023			0.25	0.302	0.0849 (J)	
1/31/2024	0.233	0.0341 (J)				
2/1/2024			0.221	0.222	0.0968 (J)	0.169
8/27/2024	0.0516 (J)	0.0334 (J)		0.382	0.0849 (J)	
8/28/2024						0.336 (J)
8/29/2024			0.248			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	0.15 (J)					
11/21/2016	0.04 (J)					
2/22/2017	0.08 (J)					
6/14/2017	0.09 (J)					
9/27/2017	<0.1					
2/14/2018	<0.1					
3/6/2018		0.94	1.1		<0.3	
5/1/2018		<0.1	0.595 (D)		<0.3	
6/27/2018	<0.1		0.27 (J)			
6/28/2018		0.69 (J+X)				
7/31/2018		<0.1				
8/1/2018			0.48			
8/10/2018				1.6 (O)		
8/23/2018		<0.1	0.34	0.32		
9/19/2018		<0.1	0.23 (J)	0.22 (J)		
10/29/2018		<0.1	<0.2	0.14 (J)		
11/28/2018		<0.1	0.063 (J)	0.24 (J)		
12/19/2018	0.23 (J)		0.28 (J)			
12/20/2018		0.12 (J)		0.3		
1/17/2019				0.23 (J)		
2/13/2019				<0.3		
3/19/2019			<0.2			
3/20/2019	<0.1	0.066 (J)		0.135 (JD)		
8/27/2019	<0.1					
8/28/2019		<0.1	<0.2			
8/29/2019				0.087 (J)		
10/16/2019			0.076 (J)	0.22 (J)		
12/3/2019		0.19 (J)				
12/4/2019	0.11 (J)					
3/4/2020			<0.2	0.1 (J)		
3/5/2020	<0.1	<0.1				
8/19/2020	<0.1					
8/20/2020		<0.1	<0.2	0.23		
9/16/2020	<0.1	0.052 (J)	<0.2			
9/17/2020				0.074 (J)		
3/2/2021		0.067 (J)	<0.2			
3/4/2021	<0.1			0.28		
9/23/2021		0.06 (J)	<0.2			
9/28/2021	<0.1			0.12	0.08 (J)	
2/2/2022	<0.1	<0.1	<0.2	0.098 (J)	0.065 (J)	
2/4/2022						0.14
8/23/2022			<0.2			
8/25/2022	0.138	0.166		0.157	0.184	0.235
1/24/2023	0.082 (J)					
1/25/2023		0.163		0.169	0.13	
1/26/2023			0.117			
1/30/2023						0.23
8/23/2023	0.0477 (J)					
8/24/2023					0.195	0.252
8/25/2023		0.185	0.243	0.188 (J)		
1/31/2024	0.207					
2/1/2024			0.11		0.242	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
2/2/2024		0.126		0.215		0.289
8/27/2024					0.193	
8/28/2024	0.0511 (J)		<0.2	0.0748 (J)		
8/29/2024		0.078 (J)				0.139

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.166		
8/24/2023	0.218		
8/25/2023		0.157	0.14
2/2/2024	0.211	0.232	0.0996 (J)
8/27/2024		0.159	0.155
8/29/2024	0.126		

Time Series

Constituent: Lead (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				<0.002	<0.002	<0.002
9/1/2016	<0.002	<0.002				
9/6/2016			<0.002			
11/16/2016	<0.002	<0.002		<0.002	<0.002	<0.002
11/17/2016			<0.002			
2/20/2017						<0.002
2/21/2017	<0.002	<0.002	<0.002	<0.002	<0.002	
6/12/2017				8E-05 (J)		<0.002
6/13/2017		<0.002	<0.002		<0.002	
6/14/2017	<0.002					
9/26/2017	<0.002	<0.002	<0.002	7E-05 (J)	7E-05 (J)	<0.002
2/13/2018				<0.002	<0.002	<0.002
2/14/2018	<0.002	<0.002	<0.002			
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	<0.002		<0.002	5.8E-05 (J)	<0.002
8/29/2019			7E-05 (J)			
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/3/2020	<0.002	<0.002		<0.002	<0.002	<0.002
3/4/2020			<0.002			
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002	0.0013 (J)
3/1/2021				<0.002		
3/2/2021	<0.002	<0.002	<0.002		<0.002	3.7E-05 (J)
9/21/2021	<0.002	<0.002				<0.002
9/22/2021			<0.002	<0.002	<0.002	
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023			<0.002	<0.002	<0.002	<0.002
2/10/2024			<0.002	<0.002	<0.002	<0.002
8/27/2024			<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.002					
9/1/2016		0.0001 (J)				
9/6/2016						<0.002
9/8/2016			<0.002	<0.002	0.0004 (J)	
11/15/2016	<0.002	<0.002				
11/17/2016			<0.002			
11/18/2016				<0.002		
11/21/2016					0.0006 (J)	<0.002
2/20/2017	0.0002 (J)	<0.002				
2/21/2017			<0.002	<0.002		
2/22/2017					0.0005 (J)	<0.002
6/12/2017	0.0001 (J)	8E-05 (J)				
6/13/2017			<0.002	<0.002		
6/14/2017					0.0004 (J)	<0.002
9/26/2017	0.0001 (J)	<0.002				
9/27/2017			<0.002	<0.002	0.0006 (J)	<0.002
2/13/2018	<0.002	<0.002				
2/14/2018			<0.002	<0.002	<0.005 (o)	<0.002
6/26/2018	<0.002	<0.002	<0.002			
6/27/2018				<0.002	0.00032 (J)	
6/28/2018						<0.002
12/18/2018	<0.002	<0.002	<0.002		0.00038 (J)	<0.002
12/20/2018				<0.002		
8/27/2019	0.00036 (J)	<0.002	0.00011 (J)			<0.002
8/28/2019				<0.002	0.00027 (J)	
10/15/2019	7.9E-05 (J)	<0.002	<0.002			
10/16/2019					0.00027 (J)	
12/4/2019				6.3E-05 (J)		<0.002
3/3/2020	7.9E-05 (J)	7.3E-05 (J)				
3/4/2020			<0.002	<0.002	0.0003 (J)	
3/5/2020						<0.002
8/18/2020	0.0001 (J)	<0.002				
8/19/2020			<0.002	<0.002	0.00025 (J)	<0.002
9/15/2020	4.3E-05 (J)	<0.002	<0.002		0.00029 (J)	
9/16/2020				<0.002		0.00011 (J)
3/1/2021		<0.002				
3/2/2021	<0.002		<0.002			
3/3/2021				<0.002	0.00033 (J)	<0.002
9/21/2021	<0.002					
9/22/2021		<0.002				
9/28/2021			<0.002	<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002				
2/2/2022			<0.002			<0.002
2/3/2022					<0.002	
2/4/2022				<0.002		
8/23/2022	<0.002	<0.002	<0.002			
8/24/2022					<0.002	<0.002
8/25/2022				<0.002		
1/24/2023	<0.002	<0.002				
1/25/2023				<0.002		
1/26/2023			<0.002		<0.002	<0.002
8/31/2023	<0.002	<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/6/2023			<0.002	<0.002	<0.002	
2/10/2024	<0.002	<0.002				<0.002
2/13/2024			<0.002	<0.002	<0.002	
8/27/2024	<0.002	<0.002		<0.002	<0.002	
8/28/2024						<0.002
8/29/2024			<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.002					
11/21/2016	<0.002					
2/22/2017	<0.002					
6/14/2017	<0.002					
9/27/2017	<0.002					
2/14/2018	<0.002					
3/6/2018		<0.002	<0.002		<0.002	
5/1/2018		<0.002	<0.002 (D)		<0.002	
6/27/2018	<0.002		<0.002			
6/28/2018		<0.002				
7/31/2018		<0.002				
8/1/2018			<0.002			
8/10/2018				<0.002		
8/23/2018		<0.002	<0.002	<0.002		
9/19/2018		<0.002	<0.002	<0.002		
10/29/2018		<0.002	<0.002	<0.002		
11/28/2018		<0.002	<0.002	<0.002		
12/19/2018	<0.002		<0.002			
12/20/2018		<0.002		<0.002		
1/17/2019				<0.002		
2/13/2019				<0.002		
8/27/2019	<0.002					
8/28/2019		<0.002	<0.002			
8/29/2019				<0.002		
10/16/2019			<0.002	<0.002		
12/3/2019		<0.002				
12/4/2019	<0.002					
3/4/2020			0.00012 (J)	<0.002		
3/5/2020	<0.002	0.00026 (J)				
8/19/2020	<0.002					
8/20/2020		0.00021 (J)	4.8E-05 (J)	<0.002		
9/16/2020	<0.002	5.3E-05 (J)	6.6E-05 (J)			
9/17/2020				<0.002		
3/2/2021		<0.002	<0.002			
3/4/2021	<0.002			4.2E-05 (J)		
9/23/2021		<0.002	<0.002			
9/28/2021	<0.002			<0.002	<0.002	
2/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002	
2/4/2022						<0.002
8/23/2022			<0.002			
8/25/2022	<0.002	<0.002		<0.002	<0.002	<0.002
1/24/2023	<0.002					
1/25/2023		0.000595 (J)		<0.002	<0.002	
1/26/2023			<0.002			
1/30/2023						<0.002
8/31/2023	<0.002					
9/6/2023		<0.002	<0.002	<0.002		
9/8/2023					<0.002	<0.002
2/10/2024	<0.002		<0.002		<0.002	
2/14/2024		<0.002		<0.002		<0.002
8/27/2024					<0.002	
8/28/2024	<0.002		<0.002	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/29/2024		<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.002		
9/6/2023		<0.002	<0.002
9/8/2023	<0.002		
2/14/2024	0.000504 (J)	<0.002	<0.002
8/27/2024		<0.002	<0.002
8/29/2024	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				0.0268 (J)	<0.01	<0.003
9/1/2016	0.0061 (J)	<0.01				
9/6/2016			0.0028 (J)			
11/16/2016	0.0054 (J)	<0.01		0.0201 (J)	<0.01	0.0033 (J)
11/17/2016			0.0063 (J)			
2/20/2017						<0.003
2/21/2017	0.0058 (J)	<0.01	0.0052 (J)	0.0128 (J)	<0.01	
6/12/2017				0.0245 (J)		0.0019 (J)
6/13/2017		<0.01	0.0061 (J)		<0.01	
6/14/2017	0.0054 (J)					
9/26/2017	0.0037 (J)	<0.01	0.0087 (J)	0.0549	<0.01	0.0022 (J)
2/13/2018				0.0595	<0.01	0.0041 (J)
2/14/2018	0.0038 (J)	<0.01	0.0104 (J)			
6/26/2018	0.0045 (J)	<0.01	0.0095 (J)	0.089	<0.01	0.0025 (J)
12/18/2018	0.0038 (J)	<0.01	0.0091 (J)	0.024 (J)	<0.01	0.0032 (J)
8/27/2019	0.0039 (J)	<0.01		0.035	<0.01	0.0019 (J)
8/29/2019			0.007 (J)			
10/15/2019	0.0037 (J)	<0.01	0.0069 (J)	0.028 (J)	<0.01	0.002 (J)
3/3/2020	0.0033 (J)	<0.01		0.055	<0.01	0.0013 (J)
3/4/2020			0.0074 (J)			
8/18/2020	0.0039 (J)	<0.01	0.0099 (J)	0.054	<0.01	0.00095 (J)
9/15/2020	0.0037 (J)	<0.01	0.011 (J)	0.033	<0.01	0.001 (J)
3/1/2021				0.027 (J)		
3/2/2021	0.0045 (J)	<0.01	0.0093 (J)		<0.01	0.00081 (J)
9/21/2021	0.0037 (J)	<0.01				0.0012 (J)
9/22/2021			0.0074 (J)	0.021 (J)	<0.01	
2/1/2022	0.0037 (J)	<0.01	0.008 (J)	0.023 (J)	<0.01	0.0011 (J)
8/23/2022	0.00451 (J)	<0.01	0.00792 (J)	0.0262	<0.01	<0.003
1/24/2023	0.00529 (J)	<0.01	0.00749 (J)	0.00919 (J)	<0.01	<0.003
8/31/2023			0.00596 (J)	0.0209	<0.01	<0.003
2/10/2024			0.00729 (J)	0.00407 (J)	<0.01	<0.003
8/27/2024			0.00687 (J)	0.00584 (J)	<0.01	0.00337 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.01					
9/1/2016		0.003 (J)				
9/6/2016						0.0117 (J)
9/8/2016			<0.01	0.0021 (J)	0.004 (J)	
11/15/2016	<0.01	0.0033 (J)				
11/17/2016			<0.01			
11/18/2016				<0.01		
11/21/2016					0.0039 (J)	0.0108 (J)
2/20/2017	<0.01	0.0025 (J)				
2/21/2017			<0.01	<0.01		
2/22/2017					0.0043 (J)	0.0103 (J)
6/12/2017	<0.01	0.0027 (J)				
6/13/2017			<0.01	0.0017 (J)		
6/14/2017					0.0036 (J)	0.0101 (J)
9/26/2017	<0.01	0.0023 (J)				
9/27/2017			<0.01	0.0016 (J)	0.0038 (J)	0.0116 (J)
2/13/2018	<0.01	0.0027 (J)				
2/14/2018			<0.01	0.0018 (J)	0.0034 (J)	0.0115 (J)
6/26/2018	<0.01	0.0029 (J)	<0.01			
6/27/2018				0.0016 (J)	0.0034 (J)	
6/28/2018						0.013 (J)
12/18/2018	<0.01	0.0026 (J)	<0.01		0.0032 (J)	0.014 (J)
12/20/2018				0.0015 (J)		
8/27/2019	<0.01	0.0028 (J)	<0.01			0.016 (J)
8/28/2019				0.0016 (J)	0.0033 (J)	
10/15/2019	<0.01	0.0024 (J)	<0.01			
10/16/2019					0.0029 (J)	
12/4/2019				0.0014 (J)		0.013 (J)
3/3/2020	<0.01	0.0026 (J)				
3/4/2020			<0.01	0.0014 (J)	0.0029 (J)	
3/5/2020						0.016 (J)
8/18/2020	<0.01	0.0026 (J)				
8/19/2020			<0.01	0.0014 (J)	0.0029 (J)	0.018 (J)
9/15/2020	<0.01	0.0027 (J)	<0.01		0.003 (J)	
9/16/2020				0.0014 (J)		0.016 (J)
3/1/2021		0.0036 (J)				
3/2/2021	<0.01		<0.01			
3/3/2021				0.0012 (J)	0.0032 (J)	0.014 (J)
9/21/2021	<0.01					
9/22/2021		0.0035 (J)				
9/28/2021			<0.01	0.0011 (J)	0.0029 (J)	0.023 (J)
2/1/2022	<0.01	0.0029 (J)				
2/2/2022			<0.01			0.021 (J)
2/3/2022					0.0026 (J)	
2/4/2022				0.001 (J)		
8/23/2022	<0.01	0.00314 (J)	<0.01			
8/24/2022					0.00304 (J)	0.0238
8/25/2022				<0.01		
1/24/2023	<0.01	0.00341 (J)				
1/25/2023				<0.01		
1/26/2023			<0.01		0.00331 (J)	0.0279
8/31/2023	<0.01	<0.01				0.0253

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/6/2023			<0.01	<0.01	0.00349 (J)	
2/10/2024	<0.01	0.00317 (J)				0.0305
2/13/2024			<0.01	<0.01	0.00337 (J)	
8/27/2024	<0.01	0.00322 (J)		<0.01	0.00305 (J)	
8/28/2024						0.0295
8/29/2024			<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.05					
11/21/2016	<0.05					
2/22/2017	0.0023 (J)					
6/14/2017	0.0022 (J)					
9/27/2017	0.0021 (J)					
2/14/2018	0.0023 (J)					
3/6/2018		0.0031 (J)	0.0399 (J)		0.0046 (J)	
5/1/2018		0.0038 (J)	0.0475 (JD)		0.0049 (J)	
6/27/2018	0.0023 (J)		0.044 (J)			
6/28/2018		0.0028 (J)				
7/31/2018		<0.25 (o)				
8/1/2018			0.039 (J)			
8/10/2018				0.0087 (J)		
8/23/2018		0.0033 (J)	0.044 (J)	0.0089 (J)		
9/19/2018		0.0033 (J)	0.043 (J)	0.005 (J)		
10/29/2018		0.003 (J)	0.039 (J)	0.0048 (J)		
11/28/2018		0.0035 (J)	0.044 (J)	0.0052 (J)		
12/19/2018	0.0018 (J)		0.043 (J)			
12/20/2018		0.003 (J)		0.0042 (J)		
1/17/2019				0.0039 (J)		
2/13/2019				<0.05		
8/27/2019	0.0022 (J)					
8/28/2019		0.0034 (J)	0.044			
8/29/2019				0.0052 (J)		
10/16/2019			0.038	0.0023 (J)		
12/3/2019		0.0033 (J)				
12/4/2019	0.0022 (J)					
3/4/2020			0.042	0.002 (J)		
3/5/2020	0.0022 (J)	0.003 (J)				
8/19/2020	0.002 (J)					
8/20/2020		0.0034 (J)	0.044	0.0022 (J)		
9/16/2020	0.0022 (J)	0.0036 (J)	0.039			
9/17/2020				0.0058 (J)		
3/2/2021		0.0043 (J)	0.044			
3/4/2021	0.002 (J)			0.003 (J)		
9/23/2021		0.0023 (J)	0.042			
9/28/2021	0.0021 (J)			0.0035 (J)	0.0048 (J)	
2/2/2022	0.0035 (J)	0.0022 (J)	0.04	0.0041 (J)	0.0058 (J)	
2/4/2022						0.007 (J)
8/23/2022			0.0474			
8/25/2022	0.0043 (J)	<0.01		0.0162	0.00652 (J)	0.00509 (J)
1/24/2023	0.007 (J)					
1/25/2023		0.00333 (J)		0.0186	0.00728 (J)	
1/26/2023			0.0506			
1/30/2023						0.0066 (J)
8/31/2023	0.00392 (J)					
9/6/2023		<0.01	0.0532	0.0131		
9/8/2023					0.0056 (J)	0.00516 (J)
2/10/2024	0.00591 (J)		0.0484		0.00537 (J)	
2/14/2024		<0.01		0.0122		0.00557 (J)
8/27/2024					0.00629 (J)	
8/28/2024	0.00514 (J)		0.0436	0.00997 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/29/2024		<0.01				0.00651 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.00899 (J)		
9/6/2023		0.00711 (J)	0.00579 (J)
9/8/2023	0.00399 (J)		
2/14/2024	0.00564 (J)	0.00702 (J)	0.00411 (J)
8/27/2024		0.00825 (J)	0.00433 (J)
8/29/2024	0.00633 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002				
9/6/2016			<0.0002			
11/16/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
11/17/2016			<0.0002			
2/20/2017						<0.0002
2/21/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
6/12/2017				4E-05 (J)		<0.0002
6/13/2017		<0.0002	<0.0002		<0.0002	
6/14/2017	6E-05 (J)					
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/13/2018				0.00021	0.00019 (J)	<0.0002
2/14/2018	5.2E-05 (J)	<0.0002	<0.0002			
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/29/2019			<0.0002			
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2021				<0.0002		
3/2/2021	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
9/21/2021	0.0001 (J)	0.0001 (J)				0.0001 (J)
9/22/2021			0.0001 (J)	0.0001 (J)	0.0001 (J)	
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2023			<0.0002	<0.0002	<0.0002	<0.0002
2/2/2024			<0.0002	<0.0002	<0.0002	<0.0002
8/27/2024			<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.0002					
9/1/2016		<0.0002				
9/6/2016						<0.0002
9/8/2016			<0.0002	<0.0002	<0.0002	
11/15/2016	<0.0002	<0.0002				
11/17/2016			<0.0002			
11/18/2016				<0.0002		
11/21/2016					<0.0002	<0.0002
2/20/2017	8E-05 (J)	<0.0002				
2/21/2017			<0.0002	<0.0002		
2/22/2017					<0.0002	<0.0002
6/12/2017	<0.0002	<0.0002				
6/13/2017			<0.0002	5E-05 (J)		
6/14/2017					7E-05 (J)	7E-05 (J)
9/26/2017	<0.0002	<0.0002				
9/27/2017			4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)
2/13/2018	0.00013 (J)	<0.0002				
2/14/2018			<0.0002	<0.0002	<0.0002	<0.0002
6/26/2018	<0.0002	<0.0002	<0.0002			
6/27/2018				<0.0002	<0.0002	
6/28/2018						<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
12/20/2018				<0.0002		
8/27/2019	<0.0002	<0.0002	<0.0002			<0.0002
8/28/2019				<0.0002	<0.0002	
8/18/2020	<0.0002	<0.0002				
8/19/2020			8.3E-05 (J)	<0.0002	9.8E-05 (J)	8.2E-05 (J)
9/15/2020	<0.0002	<0.0002	<0.0002		<0.0002	
9/16/2020				<0.0002		<0.0002
3/1/2021		<0.0002				
3/2/2021	<0.0002		<0.0002			
3/3/2021				<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)					
9/22/2021		0.0001 (J)				
9/28/2021			<0.0002	<0.0002	<0.0002	<0.0002
2/1/2022	<0.0002	<0.0002				
2/2/2022			<0.0002			<0.0002
2/3/2022					<0.0002	
2/4/2022				<0.0002		
8/23/2022	<0.0002	<0.0002	<0.0002			
8/24/2022					<0.0002	<0.0002
8/25/2022				<0.0002		
1/24/2023	<0.0002	<0.0002				
1/25/2023				<0.0002		
1/26/2023			<0.0002		<0.0002	<0.0002
8/25/2023	<0.0002	<0.0002				<0.0002
8/29/2023			<0.0002	<0.0002	<0.0002	
2/2/2024	<0.0002	<0.0002				<0.0002
2/5/2024			<0.0002	<0.0002	0.00078	
8/27/2024	<0.0002	<0.0002		<0.0002	<0.0002	
8/28/2024						<0.0002
8/29/2024			<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.0002					
11/21/2016	<0.0002					
2/22/2017	<0.0002					
6/14/2017	9E-05 (J)					
9/27/2017	0.0001 (J)					
2/14/2018	<0.0002					
3/6/2018		<0.0002	<0.0002		<0.0002	
5/1/2018		<0.0002	<0.0002 (D)		<0.0002	
6/27/2018	<0.0002		<0.0002			
6/28/2018		<0.0002				
7/31/2018		<0.0002				
8/1/2018			<0.0002			
8/10/2018				<0.0002		
8/23/2018		<0.0002	<0.0002	<0.0002		
9/19/2018		<0.0002	<0.0002	<0.0002		
10/29/2018		<0.0002	<0.0002	<0.0002		
11/28/2018		<0.0002	<0.0002	<0.0002		
12/19/2018	<0.0002		<0.0002			
12/20/2018		<0.0002		<0.0002		
1/17/2019				<0.0002		
2/13/2019				<0.0002		
8/27/2019	<0.0002					
8/28/2019		<0.0002	<0.0002			
8/29/2019				<0.0002		
8/19/2020	8.2E-05 (J)					
8/20/2020		<0.0002	<0.0002	<0.0002		
9/16/2020	<0.0002	<0.0002	<0.0002			
9/17/2020				<0.0002		
3/2/2021		<0.0002	<0.0002			
3/4/2021	<0.0002			<0.0002		
9/23/2021		<0.0002	<0.0002			
9/28/2021	<0.0002			<0.0002	<0.0002	
2/2/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/4/2022						<0.0002
8/23/2022			<0.0002			
8/25/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
1/24/2023	<0.0002					
1/25/2023		<0.0002		<0.0002	<0.0002	
1/26/2023			<0.0002			
1/30/2023						<0.0002
8/25/2023	<0.0002					
8/29/2023		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/2/2024	<0.0002		<0.0002		<0.0002	
2/6/2024		<0.0002		<0.0002		<0.0002
8/27/2024					<0.0002	
8/28/2024	<0.0002		<0.0002	<0.0002		
8/29/2024		<0.0002				<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.0002		
8/29/2023	<0.0002	<0.0002	<0.0002
2/6/2024	<0.0002	<0.0002	<0.0002
8/27/2024		<0.0002	<0.0002
8/29/2024	<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				0.0021 (J)	<0.001	0.004 (J)
9/1/2016	0.002 (J)	<0.001				
9/6/2016			0.0028 (J)			
11/16/2016	<0.01	<0.001		<0.01	<0.001	0.0038 (J)
11/17/2016			<0.001			
2/20/2017						0.0055 (J)
2/21/2017	<0.01	<0.001	<0.001	0.0021 (J)	<0.001	
6/12/2017				0.0021 (J)		0.005 (J)
6/13/2017		<0.001	<0.001		<0.001	
6/14/2017	<0.01					
9/26/2017	<0.01	<0.001	<0.001	0.0011 (J)	<0.001	0.0053 (J)
2/13/2018				0.0019 (J)	<0.001	0.008 (J)
2/14/2018	<0.01	<0.001	<0.001			
6/26/2018	<0.01	<0.001	<0.001	<0.01	<0.001	0.0041 (J)
12/18/2018	<0.01	<0.001	<0.001	<0.01	<0.001	0.0048 (J)
8/27/2019	<0.01	<0.001		<0.01	<0.001	0.0028 (J)
8/29/2019			<0.001			
10/15/2019	<0.01	<0.001	<0.001	<0.01	<0.001	0.0035 (J)
3/3/2020				<0.01	<0.001	0.0023 (J)
8/18/2020	<0.01	<0.001	<0.001	0.0011 (J)	<0.001	0.0015 (J)
9/15/2020	<0.01	<0.001	<0.001	0.0007 (J)	<0.001	0.0015 (J)
3/1/2021				<0.01		
3/2/2021	<0.01	<0.001	<0.001		<0.001	0.0015 (J)
9/21/2021	<0.01	<0.001				0.002 (J)
9/22/2021			<0.001	0.0012 (J)	<0.001	
2/1/2022	<0.01	<0.001	<0.001	0.0013 (J)	<0.001	0.002 (J)
8/23/2022	0.000413 (J)	<0.001	<0.001	0.0024	<0.001	0.00151
1/24/2023	0.000388 (J)	<0.001	<0.001	0.000601 (J)	<0.001	0.00192
8/31/2023			<0.001	0.00169	<0.001	0.000953 (J)
2/10/2024			0.000217 (J)	0.000362 (J)	<0.001	0.00143
8/27/2024			0.000225 (J)	0.000313 (J)	<0.001	0.00134

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.001					
9/1/2016		<0.001				
9/6/2016						<0.01
9/8/2016			<0.01	<0.001	<0.001	
11/15/2016	<0.001	<0.001				
11/17/2016			<0.01			
11/18/2016				<0.001		
11/21/2016					<0.001	<0.01
2/20/2017	<0.001	<0.001				
2/21/2017			<0.01	<0.001		
2/22/2017					<0.001	<0.01
6/12/2017	<0.001	<0.001				
6/13/2017			<0.01	<0.001		
6/14/2017					<0.001	<0.01
9/26/2017	<0.001	<0.001				
9/27/2017			<0.01	<0.001	<0.001	<0.01
2/13/2018	<0.001	<0.001				
2/14/2018			<0.01	<0.001	<0.001	<0.01
6/26/2018	<0.001	<0.001	<0.01			
6/27/2018				<0.001	<0.001	
6/28/2018						<0.01
12/18/2018	<0.001	<0.001	<0.01		<0.001	<0.01
12/20/2018				<0.001		
8/27/2019	<0.001	<0.001	<0.01			<0.01
8/28/2019				<0.001	<0.001	
10/15/2019	<0.001	<0.001	<0.01			
10/16/2019					<0.001	
12/4/2019				<0.001		<0.01
3/3/2020	<0.001	<0.001				
8/18/2020	<0.001	<0.001				
8/19/2020			0.00081 (J)	<0.001	<0.001	0.00078 (J)
9/15/2020	<0.001	<0.001	0.0008 (J)		<0.001	
9/16/2020				<0.001		0.0022 (J)
3/1/2021		<0.001				
3/2/2021	<0.001		0.001 (J)			
3/3/2021				<0.001	<0.001	<0.01
9/21/2021	<0.001					
9/22/2021		<0.001				
9/28/2021			0.00089 (J)	<0.001	<0.001	0.001 (J)
2/1/2022	<0.001	<0.001				
2/2/2022			0.0011 (J)			0.0012 (J)
2/3/2022					<0.001	
2/4/2022				<0.001		
8/23/2022	<0.001	<0.001	0.00105			
8/24/2022					<0.001	0.00141
8/25/2022				<0.001		
1/24/2023	<0.001	<0.001				
1/25/2023				<0.001		
1/26/2023			0.00092 (J)		<0.001	0.0014
8/31/2023	<0.001	<0.001				0.00111
9/6/2023			0.00141	<0.001	<0.001	
2/10/2024	<0.001	<0.001				0.00137

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
2/13/2024			0.0014	0.000213 (J)	<0.001	
8/27/2024	<0.001	<0.001		0.000211 (J)	<0.001	
8/28/2024						0.00123
8/29/2024			0.00123			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.001					
11/21/2016	<0.001					
2/22/2017	<0.001					
6/14/2017	<0.001					
9/27/2017	<0.001					
2/14/2018	<0.001					
3/6/2018		<0.0002	<0.01		<0.001	
5/1/2018		<0.0002	<0.01 (D)		<0.001	
6/27/2018	<0.001		<0.01			
6/28/2018		<0.0002				
7/31/2018		<0.0002				
8/1/2018			<0.01			
8/10/2018				0.0032 (J)		
8/23/2018		<0.0002	<0.01	0.005 (J)		
9/19/2018		<0.0002	<0.01	0.0061 (J)		
10/29/2018		<0.0002	<0.01	0.0065 (J)		
11/28/2018		<0.0002	<0.01	0.0027 (J)		
12/19/2018	<0.001		<0.01			
12/20/2018		<0.0002		<0.01		
1/17/2019				<0.01		
2/13/2019				<0.01		
8/27/2019	<0.001					
8/28/2019		<0.0002	<0.01			
8/29/2019				<0.01		
10/16/2019			<0.01	<0.01		
12/3/2019		<0.0002				
12/4/2019	<0.001					
8/19/2020	<0.001					
8/20/2020		0.00076 (J)	<0.01	0.0012 (J)		
9/16/2020	<0.001	<0.0002	<0.01			
9/17/2020				0.0007 (J)		
3/2/2021		<0.0002	<0.01			
3/4/2021	<0.001			0.001 (J)		
9/23/2021		<0.0002	<0.01			
9/28/2021	<0.001			<0.01	<0.001	
2/2/2022	<0.001	<0.0002	<0.01	<0.01	<0.001	
2/4/2022						0.00092 (J)
8/23/2022			0.000296 (J)			
8/25/2022	<0.001	0.000424 (J)		0.000471 (J)	<0.001	0.000741 (J)
1/24/2023	<0.001					
1/25/2023		0.000545 (J)		0.000609 (J)	<0.001	
1/26/2023			0.00027 (J)			
1/30/2023						0.000803 (J)
8/31/2023	<0.001					
9/6/2023		0.000356 (J)	0.000296 (J)	0.000782 (J)		
9/8/2023					<0.001	0.000539 (J)
2/10/2024	<0.001		0.00028 (J)		<0.001	
2/14/2024		<0.0002		0.000564 (J)		0.0007 (J)
8/27/2024					<0.001	
8/28/2024	<0.001		0.000252 (J)	0.000691 (J)		
8/29/2024		0.000207 (J)				0.000827 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.0111		
9/6/2023		0.000597 (J)	<0.001
9/8/2023	0.00625		
2/14/2024	0.00598	<0.001	<0.001
8/27/2024		<0.001	<0.001
8/29/2024	0.00702		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				7.16	6.2	6.53
9/1/2016	6.71	6				
9/6/2016			6.49			
11/16/2016	6.15	6		6.96	6.12	6.4
11/17/2016			5.79			
2/20/2017						6.44
2/21/2017	6.52	6.09	6.15	7.15	6.24	
6/12/2017				7.31		6.4
6/13/2017	6.42	6.03	5.87		6.19	
6/14/2017	6.51					
9/26/2017	6.42	5.85	5.82	7.02	6.15	6.31
2/13/2018				7.44	6.18	6.62
2/14/2018	6.48	5.99	5.83			
6/26/2018	6.2	5.86	5.73	6.93	6.05	6.29
7/31/2018	6.37	5.99				
12/18/2018	6.5	6.08	5.78	6.76	5.92	6.57
3/19/2019	6.28	5.71	5.28	6.87	6.18	6.45
8/27/2019	6.35	6		6.79	6.09	6.37
8/29/2019			5.64			
10/15/2019	6.8	6.61	5.7	6.57	6.06	6.77
3/3/2020	6.33	5.94		6.71	6.1	6.29
3/4/2020			5.7			
8/18/2020	6.25	5.75	5.56	6.59	6.06	6.29
9/15/2020	6.01	6	5.72	6.64	6.01	6.27
3/1/2021				6.66		
3/2/2021	6.11	5.92	5.75		6.2	6.47
9/21/2021	6.53	5.87				6.32
9/22/2021			5.72	6.78	6.06	
2/1/2022	6.4	5.81	5.65	6.83	5.95	6.38
8/23/2022	6.39	5.9	5.66	6.67	5.95	6.24
1/24/2023	6.48	5.97	5.76	6.7	5.26	6.42
8/22/2023			5.89	6.91	5.97	6.36
1/30/2024			5.87	6.57	6.05	6.44
8/27/2024			5.92	6.6	6.02	6.56

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	6.59					
9/1/2016		6.49				
9/6/2016						6.23
9/8/2016			6.07	5.51	4.62	
11/15/2016	6.67	6.59				
11/16/2016			5.96			
11/18/2016				5.53		
11/21/2016					4.44	6.23
2/20/2017	6.65	6.61				
2/21/2017			5.98	5.63		
2/22/2017					4.42	6.16
6/12/2017	6.64					
6/13/2017			5.96	5.57		
6/14/2017					4.45	6.16
9/26/2017	6.58	6.47				
9/27/2017			5.85	5.53	4.33	6.16
2/13/2018	6.72	6.54				
2/14/2018			5.94	5.83	4.42	6.24
6/26/2018	6.43	6.23	5.87			
6/27/2018				5.53	4.37	
6/28/2018						6.21
12/18/2018	6.7	6.71	5.84		4.38	6.18
12/20/2018				5.78		
3/19/2019	6.63	6.18		5.75		
3/20/2019			6.03		4.4	6.24
8/27/2019	6.49	6.35	6.01			6.17
8/28/2019				5.51	4.39	
10/15/2019	7.01	6.36	6			
10/16/2019					4.79	
10/17/2019				6.01 (D)		6.43
3/3/2020	6.49	6.59				
3/4/2020			6.02	5.8	4.5	
3/5/2020						5.99
8/18/2020	6.41	6.33				
8/19/2020			6.32	5.81	4.67	6.36
9/15/2020	6.25	6.43	6		4.53	
9/16/2020				5.81		6.29
3/1/2021		6.7				
3/2/2021	6.42		6.1			
3/3/2021				5.9	4.46	6.29
9/21/2021	6.36					
9/22/2021		6.48				
9/28/2021			5.97	5.82	4.23	6.33
2/1/2022	6.39	6.54				
2/2/2022			6.23			6.34
2/3/2022					4.23	
2/4/2022				5.97		
8/23/2022	6.36	6.51	6.11			
8/24/2022					4.39	6.38
8/25/2022				6.03		
1/24/2023	6.47	6.54				
1/25/2023				5.63		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
1/26/2023			6.18		4.3	6.28
8/22/2023	6.09	6.27				6.44
8/24/2023			6.14	6.01	4.48	
1/30/2024	6.38	5.75				6.39
1/31/2024			6.31	5.83	4.37	
8/27/2024	6.65	6.8		5.95	4.47	
8/28/2024						6.49
8/29/2024			6.52			

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	5.89					
11/21/2016	5.56					
2/22/2017	5.87					
6/14/2017	5.83					
9/27/2017	5.87					
2/14/2018	6.01					
3/15/2018		5.26				
5/1/2018		6.14	5.85		6.12	
6/27/2018	5.83		5.87			
6/28/2018		5.88				
7/31/2018		6.07				
8/1/2018			5.79			
8/10/2018				6.28		
8/23/2018				6.75		
9/19/2018		5.9	5.71	6.48		
10/29/2018		5.93	5.76	6.77		
11/28/2018		5.99	5.74	6.44		
12/19/2018	5.79		5.8			
12/20/2018		6.04		6.75		
1/17/2019				6.41		
2/13/2019				6.42		
3/19/2019			5.89			
3/20/2019	5.88	6.1		6.59		
8/27/2019	5.85					
8/28/2019		5.86	5.74			
8/29/2019				6.27		
10/16/2019			5.9	7		
10/17/2019	6.09	5.93				
3/4/2020			5.76	6.54		
3/5/2020	5.74	5.95				
5/12/2020	5.88					
8/19/2020	5.97					
8/20/2020		5.86	5.75	6.85		
9/16/2020	5.79	5.27	5.76			
9/17/2020				6.12		
3/2/2021		6.17	5.59			
3/4/2021	5.98			5.87		
9/23/2021		5.95	5.74			
9/28/2021	5.82			6.81	6.22	
2/2/2022	5.99	5.92	5.75	6.35	6.2	
2/4/2022						5.89
8/23/2022			5.61			
8/25/2022	6.06	5.74		6.21	6.06	5.65
1/24/2023	6.05					
1/25/2023		5.82		6.25	6.13	
1/26/2023			5.65			
1/30/2023						5.66
8/22/2023	5.98					
8/23/2023						5.68
8/24/2023		5.71	5.69	6.24		
1/30/2024	5.98		5.73		6.18	
2/1/2024		5.85		6.3		5.7

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/27/2024					6.19	
8/28/2024	6.05		5.57	6.49		
8/29/2024		6.26				5.7

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	7.28		
8/23/2023	7.41		
8/24/2023		5.89	5.76
2/1/2024	7.41	6.09	5.92
8/27/2024		5.89	5.63
8/29/2024	7.36		

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005				
9/6/2016			<0.005			
11/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005
11/17/2016			0.0052 (J)			
2/20/2017						<0.005
2/21/2017	<0.005	<0.005	0.0018 (J)	<0.005	<0.005	
6/12/2017				<0.005		<0.005
6/13/2017		<0.005	<0.005		<0.005	
6/14/2017	<0.005					
9/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2018				<0.005	<0.005	<0.005
2/14/2018	<0.005	<0.005	<0.005			
6/26/2018	<0.005	<0.005	0.0036 (J)	<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005	0.0044 (J)	<0.005	<0.005	<0.005
8/27/2019	<0.005	<0.005		<0.005	<0.005	<0.005
8/29/2019			0.0023 (J)			
10/15/2019	<0.005	<0.005	0.0022 (J)	<0.005	<0.005	<0.005
3/3/2020	<0.005	<0.005		<0.005	<0.005	<0.005
3/4/2020			0.0019 (J)			
8/18/2020	<0.005	<0.005	0.0033 (J)	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	0.0028 (J)	<0.005	<0.005	<0.005
3/1/2021				<0.005		
3/2/2021	<0.005	<0.005	0.006		<0.005	<0.005
9/21/2021	<0.005	<0.005				<0.005
9/22/2021			0.0016 (J)	<0.005	<0.005	
2/1/2022	<0.005	<0.005	0.002 (J)	<0.005	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/31/2023			<0.005	<0.005	<0.005	<0.005
2/10/2024			<0.005	<0.005	<0.005	<0.005
8/27/2024			<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.005					
9/1/2016		<0.005				
9/6/2016						<0.005
9/8/2016			<0.005	0.0043 (J)	0.0039 (J)	
11/15/2016	<0.005	<0.005				
11/17/2016			<0.005			
11/18/2016				0.0047 (J)		
11/21/2016					0.0058 (J)	<0.005
2/20/2017	<0.005	<0.005				
2/21/2017			<0.005	0.0025 (J)		
2/22/2017					0.005 (J)	<0.005
6/12/2017	<0.005	<0.005				
6/13/2017			<0.005	0.0036 (J)		
6/14/2017					0.0074 (J)	0.0045 (J)
9/26/2017	<0.005	<0.005				
9/27/2017			<0.005	0.004 (J)	0.0068 (J)	0.0034 (J)
2/13/2018	<0.005	<0.005				
2/14/2018			<0.005	<0.005	<0.005	<0.005
6/26/2018	<0.005	<0.005	<0.005			
6/27/2018				0.0014 (J)	<0.005	
6/28/2018						<0.005
12/18/2018	<0.005	<0.005	<0.005		<0.005	<0.005
12/20/2018				<0.005		
8/27/2019	<0.005	<0.005	<0.005			0.0038 (J)
8/28/2019				0.0017 (J)	<0.005	
10/15/2019	<0.005	<0.005	<0.005			
10/16/2019					<0.005	
12/4/2019				0.0036 (J)		0.0018 (J)
3/3/2020	<0.005	<0.005				
3/4/2020			<0.005	0.0022 (J)	0.0018 (J)	
3/5/2020						<0.005
8/18/2020	<0.005	<0.005				
8/19/2020			<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005		<0.005	
9/16/2020				0.0042 (J)		<0.005
3/1/2021		<0.005				
3/2/2021	<0.005		0.0021 (J)			
3/3/2021				0.0031 (J)	0.0042 (J)	<0.005
9/21/2021	<0.005					
9/22/2021		<0.005				
9/28/2021			<0.005	<0.005	0.0022 (J)	<0.005
2/1/2022	<0.005	<0.005				
2/2/2022			<0.005			<0.005
2/3/2022					<0.005	
2/4/2022				<0.005		
8/23/2022	<0.005	<0.005	<0.005			
8/24/2022					<0.005	<0.005
8/25/2022				<0.005		
1/24/2023	<0.005	<0.005				
1/25/2023				<0.005		
1/26/2023			<0.005		<0.005	<0.005
8/31/2023	<0.005	<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/6/2023			<0.005	<0.005	<0.005	
2/10/2024	<0.005	<0.005				<0.005
2/13/2024			<0.005	<0.005	0.00229 (J)	
8/27/2024	<0.005	<0.005		<0.005	<0.005	
8/28/2024						<0.005
8/29/2024			<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.01					
11/21/2016	<0.01					
2/22/2017	0.0017 (J)					
6/14/2017	<0.01					
9/27/2017	0.0019 (J)					
2/14/2018	<0.01					
3/6/2018		<0.005	<0.005		<0.005	
5/1/2018		<0.005	<0.005 (D)		<0.005	
6/27/2018	0.0017 (J)		<0.005			
6/28/2018		<0.005				
7/31/2018		<0.005				
8/1/2018			0.0015 (J)			
8/10/2018				<0.005		
8/23/2018		<0.005	<0.005 (X)	<0.005		
9/19/2018		<0.005	0.002 (J)	<0.005		
10/29/2018		<0.005	<0.005	<0.005		
11/28/2018		<0.005	<0.005	<0.005		
12/19/2018	0.0059 (J)		<0.005			
12/20/2018		<0.005		<0.005		
1/17/2019				<0.005		
2/13/2019				<0.005		
8/27/2019	0.057					
8/28/2019		<0.005	<0.005			
8/29/2019				<0.005		
10/16/2019			0.0017 (J)	<0.005		
12/3/2019		0.0029 (J)				
12/4/2019	0.1					
3/4/2020			<0.005	<0.005		
3/5/2020	0.1	<0.005				
5/12/2020	0.0989					
8/19/2020	0.099					
8/20/2020		<0.005	0.0016 (J)	<0.005		
9/16/2020	0.12	<0.005	0.002 (J)			
9/17/2020				<0.005		
3/2/2021		<0.005	0.0028 (J)			
3/4/2021	0.14			<0.005		
9/23/2021		<0.005	<0.005			
9/28/2021	0.13			<0.005	<0.005	
2/2/2022	0.21	<0.005	<0.005	<0.005	<0.005	
2/4/2022						<0.005
8/23/2022			<0.005			
8/25/2022	0.218	<0.005		<0.005	<0.005	<0.005
1/24/2023	0.198					
1/25/2023		<0.005		<0.005	<0.005	
1/26/2023			<0.005			
1/30/2023						<0.005
8/31/2023	0.21					
9/6/2023		<0.005	<0.005	<0.005		
9/8/2023					<0.005	<0.005
2/10/2024	0.17		<0.005		<0.005	
2/14/2024		<0.005		<0.005		<0.005
8/27/2024					<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/28/2024	0.0945		<0.005	<0.005		
8/29/2024		<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.005		
9/6/2023		0.0423	0.0696
9/8/2023	<0.005		
2/14/2024	<0.005	0.0489	0.0954
8/27/2024		0.0597	0.106
8/29/2024	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				7.5	0.38 (J)	2.7
9/1/2016	2.7	1.7				
9/6/2016			38			
11/16/2016	3.6	1.2		6.6	<1 (J)	3.4
11/17/2016			84			
2/20/2017						3.9 (B-01)
2/21/2017	3	1.1	39	6.1	1.5	
6/12/2017				5		3.7
6/13/2017		1.1	35		0.67 (J)	
6/14/2017	2.6					
9/26/2017	2.5	1.3	89	5.4	0.62 (J)	4.1
2/13/2018				4.7 (J)	<1	6.6
2/14/2018	2.1 (J)	<1	82.2			
6/26/2018	2	0.84 (J)	84.2	6.2	0.69 (J)	3.5
7/31/2018	1.9	0.63 (J)				
12/18/2018	2.1	0.66 (J)	83.4	5.9	0.72 (J)	4.3
3/19/2019	2.2	0.75 (J)	65	6 (D)	0.78 (J)	3
10/15/2019	1.9	0.61 (J)	30	5.2	0.47 (J)	3.8
3/3/2020	1.8	0.51 (J)		7.1	0.93 (J)	2.8
3/4/2020			38.6			
9/15/2020	1.7	<1	41.5	5.9	<1	1.7
3/1/2021				4.7		
3/2/2021	1.7	0.51 (J)	54		<1	2.2
9/21/2021	1.7	0.51 (J)				2.3
9/22/2021			34.6	5.2	<1	
2/1/2022	1.4	<1	36.8	5.4	<1	2
8/23/2022	1.84	0.636	24.4	5.66	0.452	2.21
1/24/2023	1.8	0.628	19.7	3.58	0.465	3.34
8/23/2023			11.3	6.85	0.526	1.83
1/31/2024				2.65	0.423	2.74
2/1/2024			10.4			
8/27/2024			9.73	2.58	0.444	2.67

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	0.81 (J)					
9/1/2016		0.6 (J)				
9/6/2016						310
9/8/2016			280	300	460	
11/15/2016	<1 (J)	0.68 (J)				
11/17/2016			200			
11/18/2016				320		
11/21/2016					500	300
2/20/2017	1 (B-01)	0.98 (J)				
2/21/2017			360	270		
2/22/2017					570	280
6/12/2017	0.94 (J)	0.54 (J)				
6/13/2017			290	230		
6/14/2017					440	290
9/26/2017	0.92 (J)	0.53 (J)				
9/27/2017			310	260	380	260
2/13/2018	<1	<1				
2/14/2018			260	232	280	250
6/26/2018	0.91 (J)	0.54 (J)	231			
6/27/2018				205	281	
6/28/2018						276
12/18/2018	0.68 (J)	0.39 (J)	231		293	440
12/20/2018				200		
3/19/2019	0.74 (J)	0.68 (J)		199		
3/20/2019			235 (D)		278	623
10/15/2019	0.68 (J)	0.48 (J)	174			
10/16/2019					266	
12/4/2019				241		327
3/3/2020	0.71 (J)	2.5				
3/4/2020			165	205	238	
3/5/2020						369
9/15/2020	<1	<1	126		241	
9/16/2020				190		334
3/1/2021		0.74 (J)				
3/2/2021	<1		139			
3/3/2021				172	341	371
9/21/2021	<1					
9/22/2021		<1				
9/28/2021			112	137	250	612
2/1/2022	<1	<1				
2/2/2022			117			580
2/3/2022					274	
2/4/2022				172		
8/23/2022	0.521	0.479	158			
8/24/2022					298	935
8/25/2022				176		
1/24/2023	0.66	0.484				
1/25/2023				150		
1/26/2023			182		293	1030
8/23/2023	0.54	0.467				
8/24/2023						1250
8/25/2023			174			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/26/2023				94.5	288	
1/31/2024	0.617	0.456				
2/1/2024						1210
2/2/2024			169		328	
2/3/2024				155		
8/27/2024	0.652	0.465		174	261	
8/28/2024						1260
8/29/2024			216			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	370					
11/21/2016	420					
2/22/2017	380					
6/14/2017	400					
9/27/2017	400					
2/14/2018	383					
3/6/2018		111	1560		51.8	
5/1/2018		112	1465 (D)		51	
6/27/2018	372		1450			
6/28/2018		109				
7/31/2018		107				
8/1/2018			1560			
8/10/2018				183		
8/23/2018		108	1470	145		
9/19/2018		117	1500	178		
10/29/2018		127	1720	157		
11/28/2018		133	1730	189		
12/19/2018	370		1520			
12/20/2018		113		150		
1/17/2019				157		
2/13/2019				169		
3/19/2019			1100			
3/20/2019	409	127		186.5 (D)		
10/16/2019			1560	155		
12/3/2019		105				
12/4/2019	293					
3/4/2020			1380	129		
3/5/2020	269	106				
9/16/2020	255	103	1360			
9/17/2020				165		
3/2/2021		98.3	1360			
3/4/2021	185			114		
9/23/2021		97.5	1240			
9/28/2021	189			132	47.2	
2/2/2022	210	90.1	1170	126	45.3	
2/4/2022						195
8/23/2022			1410			
8/25/2022	254	114		142	47	234
1/24/2023	247					
1/25/2023		102		145	41	
1/26/2023			1310			
1/30/2023						280
8/24/2023	256					
8/25/2023			1300	150	49.5	294
8/26/2023		114				
2/1/2024	246		1360		42.4	
2/2/2024				145		
2/3/2024						352
2/9/2024		110				
8/27/2024					41.8	
8/28/2024	201		1310	150		
8/29/2024		150				344

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	258		
8/25/2023	298		
8/26/2023		309	275
2/3/2024	279	306	304
8/27/2024		260	257
8/29/2024	280		

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				<0.002	<0.002	<0.002
9/1/2016	<0.002	<0.002				
9/6/2016			<0.002			
11/16/2016	<0.002	<0.002		<0.002	<0.002	<0.002
11/17/2016			<0.002			
2/20/2017						<0.002
2/21/2017	<0.002	<0.002	<0.002	<0.002	<0.002	
6/12/2017				<0.002		<0.002
6/13/2017		<0.002	<0.002		<0.002	
6/14/2017	<0.002					
9/26/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/13/2018				<0.002	<0.002	<0.002
2/14/2018	<0.002	<0.002	<0.002			
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	<0.002		<0.002	<0.002	<0.002
8/29/2019			<0.002			
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/3/2020	<0.002	<0.002		<0.002	<0.002	<0.002
3/4/2020			<0.002			
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2021				<0.002		
3/2/2021	<0.002	<0.002	<0.002		<0.002	<0.002
9/21/2021	<0.002	<0.002				<0.002
9/22/2021			<0.002	<0.002	<0.002	
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023			<0.002	<0.002	<0.002	<0.002
2/10/2024			<0.002	<0.002	<0.002	<0.002
8/27/2024			<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	<0.002					
9/1/2016		<0.002				
9/6/2016						<0.002
9/8/2016			<0.002	<0.002	<0.002	
11/15/2016	<0.002	<0.002				
11/17/2016			<0.002			
11/18/2016				<0.002		
11/21/2016					0.0002 (J)	<0.002
2/20/2017	<0.002	<0.002				
2/21/2017			<0.002	<0.002		
2/22/2017					0.0002 (J)	<0.002
6/12/2017	<0.002	<0.002				
6/13/2017			<0.002	<0.002		
6/14/2017					0.0002 (J)	<0.002
9/26/2017	<0.002	<0.002				
9/27/2017			<0.002	<0.002	0.0002 (J)	<0.002
2/13/2018	<0.002	<0.002				
2/14/2018			<0.002	<0.002	0.00018 (J)	<0.002
6/26/2018	<0.002	<0.002	<0.002			
6/27/2018				<0.002	0.00017 (J)	
6/28/2018						<0.002
12/18/2018	<0.002	<0.002	<0.002		0.00017 (J)	<0.002
12/20/2018				<0.002		
8/27/2019	<0.002	<0.002	<0.002			<0.002
8/28/2019				<0.002	0.00017 (J)	
10/15/2019	<0.002	<0.002	<0.002			
10/16/2019					0.00017 (J)	
12/4/2019				<0.002		<0.002
3/3/2020	<0.002	<0.002				
3/4/2020			<0.002	<0.002	0.00016 (J)	
3/5/2020						<0.002
8/18/2020	<0.002	<0.002				
8/19/2020			<0.002	<0.002	0.00016 (J)	<0.002
9/15/2020	<0.002	<0.002	<0.002		0.00016 (J)	
9/16/2020				<0.002		<0.002
3/1/2021		<0.002				
3/2/2021	<0.002		<0.002			
3/3/2021				<0.002	0.00018 (J)	<0.002
9/21/2021	<0.002					
9/22/2021		<0.002				
9/28/2021			<0.002	<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002				
2/2/2022			<0.002			<0.002
2/3/2022					<0.002	
2/4/2022				<0.002		
8/23/2022	<0.002	<0.002	<0.002			
8/24/2022					<0.002	<0.002
8/25/2022				<0.002		
1/24/2023	<0.002	<0.002				
1/25/2023				<0.002		
1/26/2023			<0.002		<0.002	<0.002
8/31/2023	<0.002	<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/6/2023			<0.002	<0.002	<0.002	
2/10/2024	<0.002	<0.002				<0.002
2/13/2024			<0.002	<0.002	<0.002	
8/27/2024	<0.002	<0.002		<0.002	<0.002	
8/28/2024						<0.002
8/29/2024			<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	<0.002					
11/21/2016	<0.002					
2/22/2017	<0.002					
6/14/2017	<0.002					
9/27/2017	<0.002					
2/14/2018	<0.002					
3/6/2018		<0.002	<0.002		<0.002	
5/1/2018		<0.002	<0.002 (D)		<0.002	
6/27/2018	<0.002		<0.002			
6/28/2018		<0.002				
7/31/2018		<0.002				
8/1/2018			<0.002			
8/10/2018				<0.002		
8/23/2018		<0.002	<0.002	<0.002		
9/19/2018		<0.002	<0.002	<0.002		
10/29/2018		<0.002	<0.002	<0.002		
11/28/2018		<0.002	<0.002	<0.002		
12/19/2018	<0.002		<0.002			
12/20/2018		<0.002		<0.002		
1/17/2019				<0.002		
2/13/2019				<0.002		
8/27/2019	<0.002					
8/28/2019		<0.002	<0.002			
8/29/2019				<0.002		
10/16/2019			<0.002	<0.002		
12/3/2019		<0.002				
12/4/2019	<0.002					
3/4/2020			<0.002	<0.002		
3/5/2020	<0.002	<0.002				
8/19/2020	<0.002					
8/20/2020		<0.002	<0.002	<0.002		
9/16/2020	<0.002	<0.002	<0.002			
9/17/2020				<0.002		
3/2/2021		<0.002	<0.002			
3/4/2021	<0.002			<0.002		
9/23/2021		<0.002	<0.002			
9/28/2021	<0.002			<0.002	<0.002	
2/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002	
2/4/2022						<0.002
8/23/2022			<0.002			
8/25/2022	<0.002	<0.002		<0.002	<0.002	<0.002
1/24/2023	<0.002					
1/25/2023		<0.002		<0.002	<0.002	
1/26/2023			<0.002			
1/30/2023						<0.002
8/31/2023	<0.002					
9/6/2023		<0.002	<0.002	<0.002		
9/8/2023					<0.002	<0.002
2/10/2024	<0.002		<0.002		<0.002	
2/14/2024		<0.002		<0.002		<0.002
8/27/2024					<0.002	
8/28/2024	<0.002		<0.002	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
8/29/2024		<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.002		
9/6/2023		<0.002	<0.002
9/8/2023	<0.002		
2/14/2024	<0.002	<0.002	<0.002
8/27/2024		<0.002	<0.002
8/29/2024	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)
8/31/2016				151	88	138
9/1/2016	142	69				
9/6/2016			146			
11/16/2016	100	100		69	41	77
11/17/2016			211			
2/20/2017						170
2/21/2017	71	37	151	68	<25	
6/12/2017				161		132
6/13/2017		84	130		53	
6/14/2017	140					
9/26/2017	149	68	160	167	45	108
2/13/2018				165	63	141
2/14/2018	137	138	194			
6/26/2018	142	90	221	188	71	133
7/31/2018	133	83				
12/18/2018	135	85	208	145 (X)	78 (X)	138 (X)
3/19/2019	132 (JX)	82 (JX)	161 (JX)	146.5 (D)	68	130
10/15/2019	134	89	124	140	66	175
3/3/2020	115	72		155	41	<10
3/4/2020			118			
9/15/2020	95	60	109	116	69	100
3/1/2021				98		
3/2/2021	93	43	105		43	80
9/21/2021	117	56				108
9/22/2021			128	129	66	
2/1/2022	114	63	130	126	72	129
8/23/2022	104	55	103	117	45	107
1/24/2023	114	59	102	93	63	124
8/25/2023			70		36	
8/28/2023				81		80
2/6/2024			85	98	54	118
8/27/2024			86	82	51	107

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/31/2016	154					
9/1/2016		299 (o)				
9/6/2016						505
9/8/2016			460	478	654	
11/15/2016	123	41				
11/17/2016			611			
11/18/2016				503		
11/21/2016					819	515
2/20/2017	158	133				
2/21/2017			497	380		
2/22/2017					721	504
6/12/2017	142	61				
6/13/2017			474	354		
6/14/2017					661	536
9/26/2017	138	29				
9/27/2017			457	376	518	432
2/13/2018	150	61				
2/14/2018			431	503 (JX)	487	448
6/26/2018	154	71	414			
6/27/2018				458 (X)	648 (X)	
6/28/2018						494
12/18/2018	147	70 (X)	401		407	715
12/20/2018				344		
3/19/2019	146	72		334 (JX)		
3/20/2019			410.5 (D)		391	885
10/15/2019	144	63	380			
10/16/2019					2030	
12/4/2019				422		612
3/3/2020	130	54				
3/4/2020			330	326	391	
3/5/2020						681
9/15/2020	116	79	272		281	
9/16/2020				301		634
3/1/2021		39				
3/2/2021	96		280			
3/3/2021				288	515	690
9/21/2021	104					
9/22/2021		62				
9/28/2021			270	262	457	1050
2/1/2022	124	61				
2/2/2022			283			1110
2/3/2022					419	
2/4/2022				301		
8/23/2022	101	52	315			
8/24/2022					383	1540
8/25/2022				311		
1/24/2023	104	64				
1/25/2023				260		
1/26/2023			339		419	1680
8/25/2023	73					1920
8/28/2023		30				
8/30/2023			354	309	418	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
2/6/2024	113	45				1970
2/7/2024			391	299	535	
8/27/2024	101	57		346	424	
8/28/2024						2030
8/29/2024			492			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-63I
9/8/2016	607					
11/21/2016	695					
2/22/2017	635					
6/14/2017	635					
9/27/2017	601					
2/14/2018	628					
3/6/2018		346	2200		191	
5/1/2018		374	2080 (D)		189	
6/27/2018	2280		31 (OX)			
6/28/2018		333				
7/31/2018		393				
8/1/2018			2190			
8/10/2018				344		
8/23/2018		350	2160	333		
9/19/2018		353	2160	364		
10/29/2018		329	2130	334		
11/28/2018		358	2320	357		
12/19/2018	605		2060			
12/20/2018		322		355		
1/17/2019				347		
2/13/2019				350		
3/19/2019			2050 (JX)			
3/20/2019	564	302		360 (D)		
10/16/2019			2220	346		
12/3/2019		362				
12/4/2019	526					
3/4/2020			2140	351		
3/5/2020	489	297				
9/16/2020	428	275	2090			
9/17/2020				329		
3/2/2021		264	1680			
3/4/2021	350			383		
9/23/2021		277	1770			
9/28/2021	375			336	181	
2/2/2022	443	276	1850	160	181	
2/4/2022						403
8/23/2022			2060			
8/25/2022	437	248		296	167	419
1/24/2023	425					
1/25/2023		251		276	156	
1/26/2023			2010			
1/30/2023						448
8/25/2023	412					
8/29/2023						503
8/30/2023		242	1970	281	184	
2/6/2024	418		2160		179	
2/8/2024		255		303		561
8/27/2024					180	
8/28/2024	374		1780	310		
8/29/2024		353				625

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/10/2025 10:45 AM View: Pond BCD

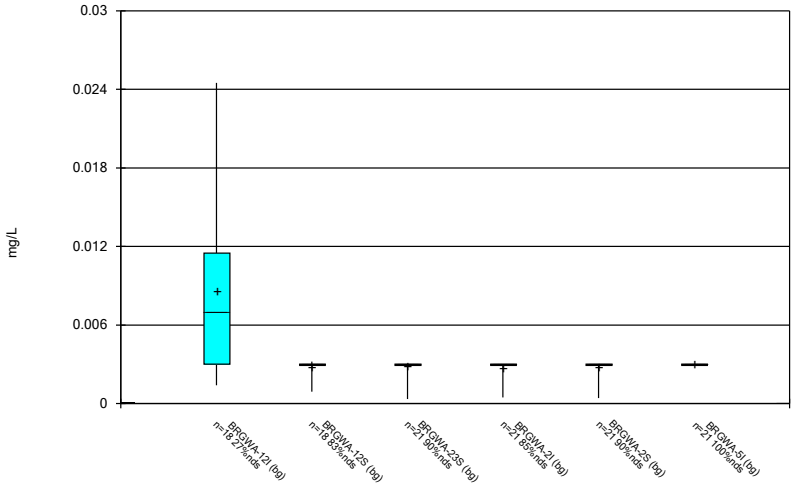
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	525		
8/30/2023	597	506	430
2/8/2024	583	536	450
8/27/2024		519	467
8/29/2024	601		

FIGURE B.

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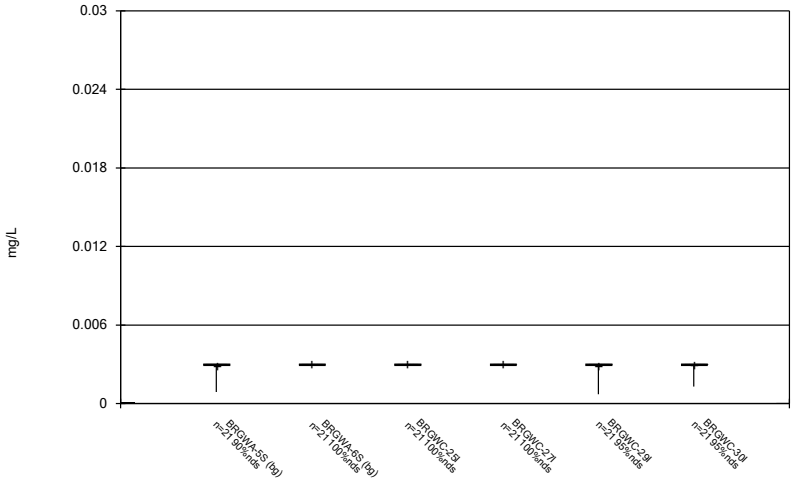
Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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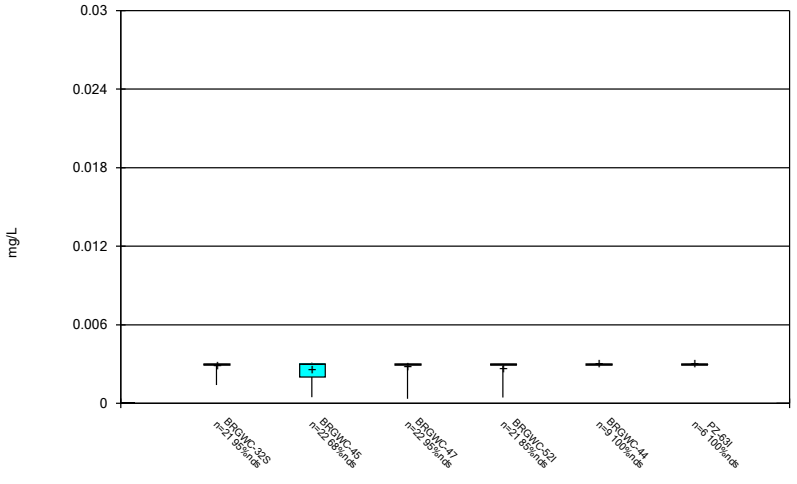
Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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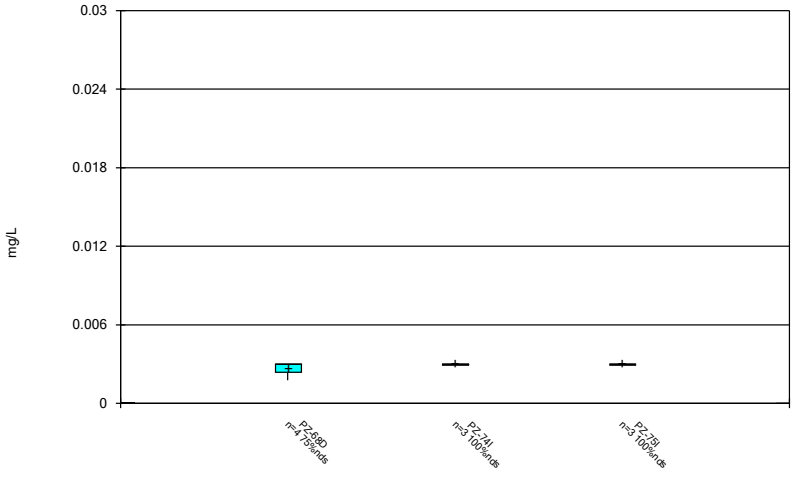
Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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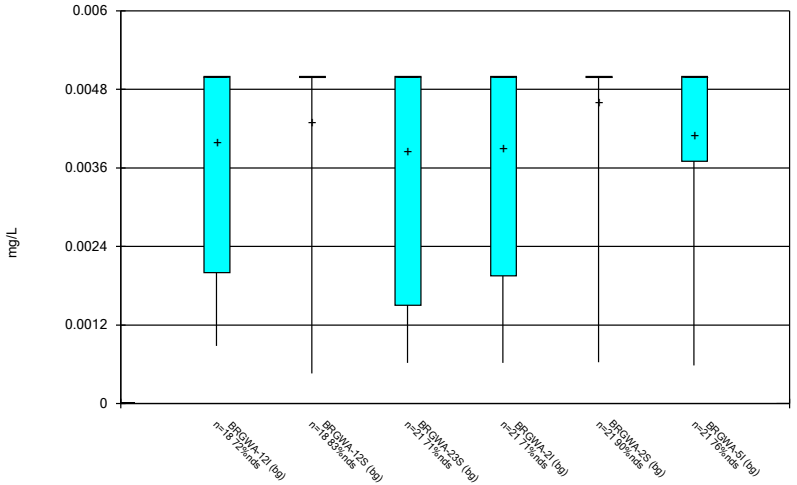
Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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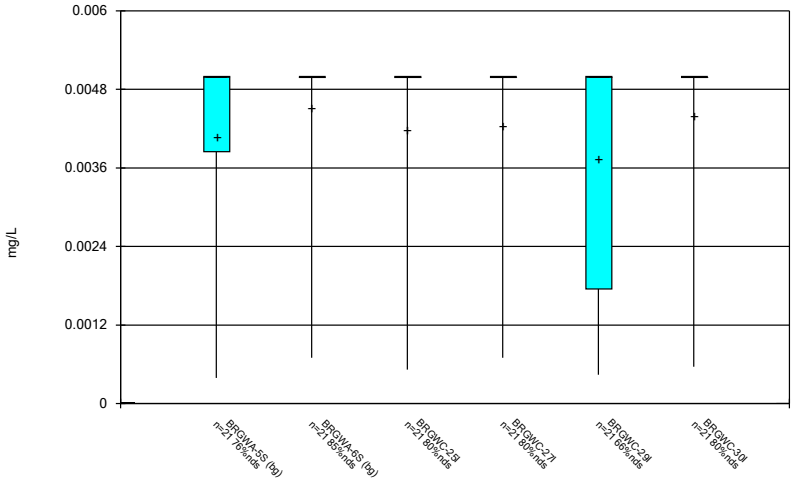
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

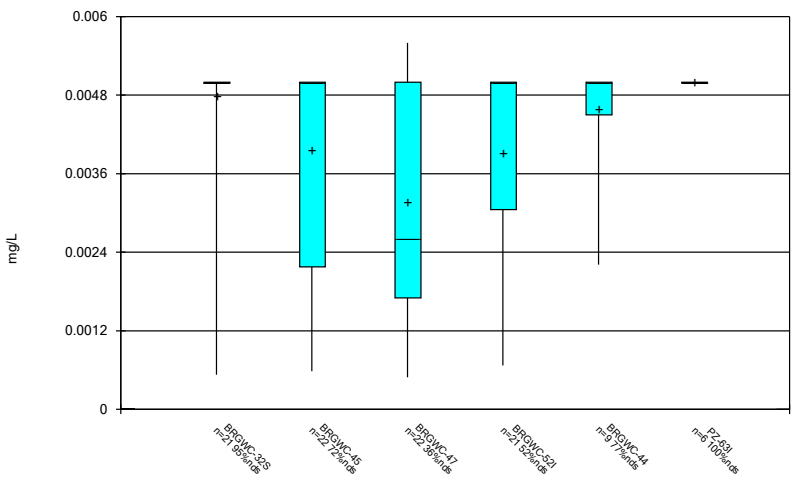
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

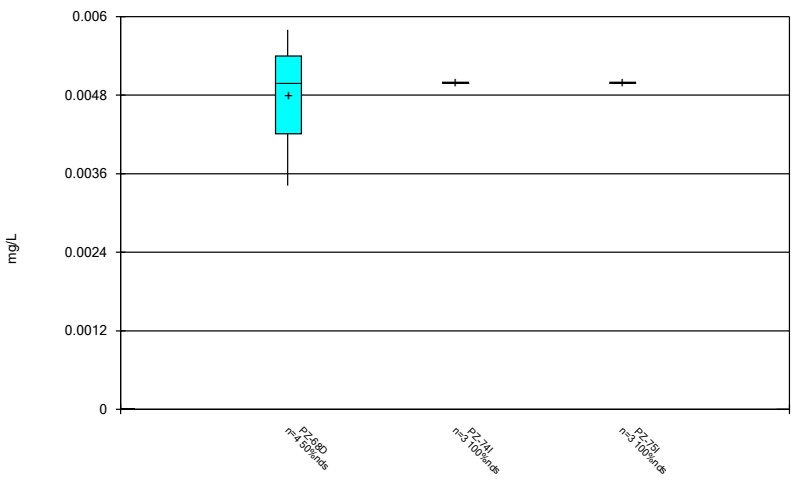
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

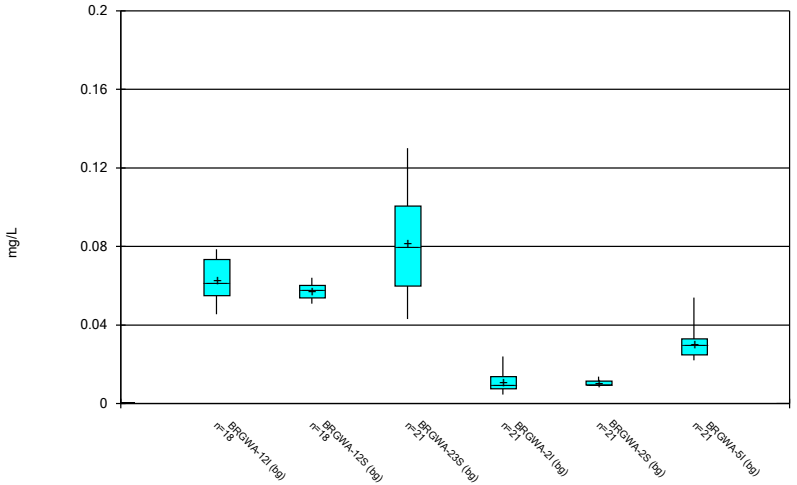
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

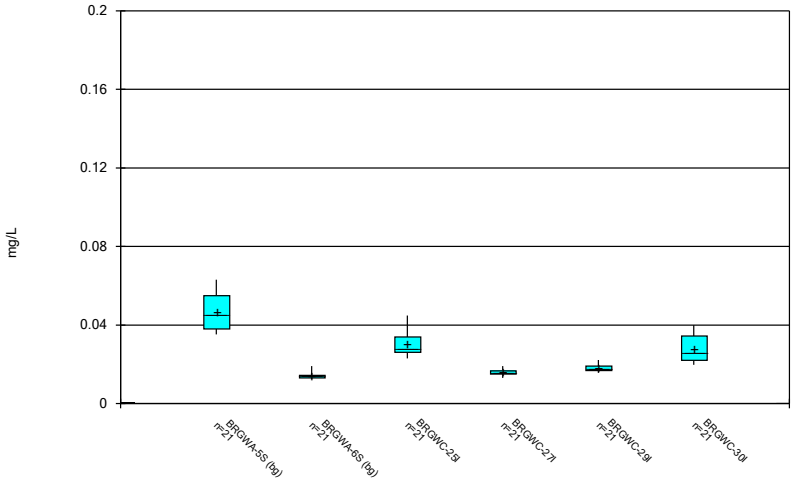
Box & Whiskers Plot



Constituent: Barium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

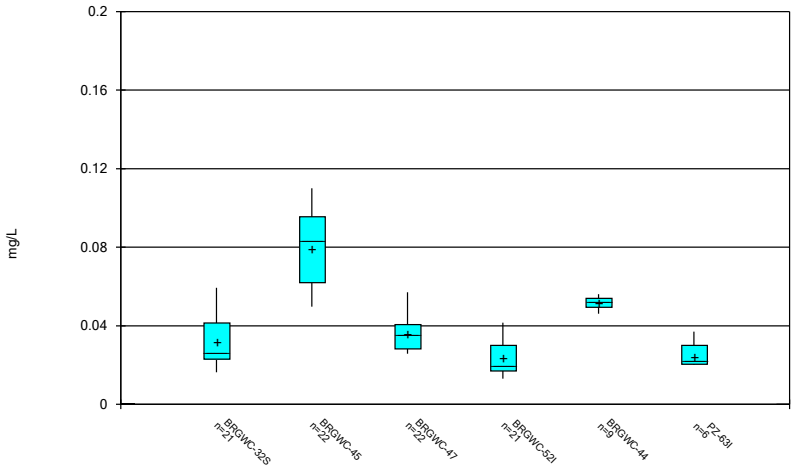
Box & Whiskers Plot



Constituent: Barium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

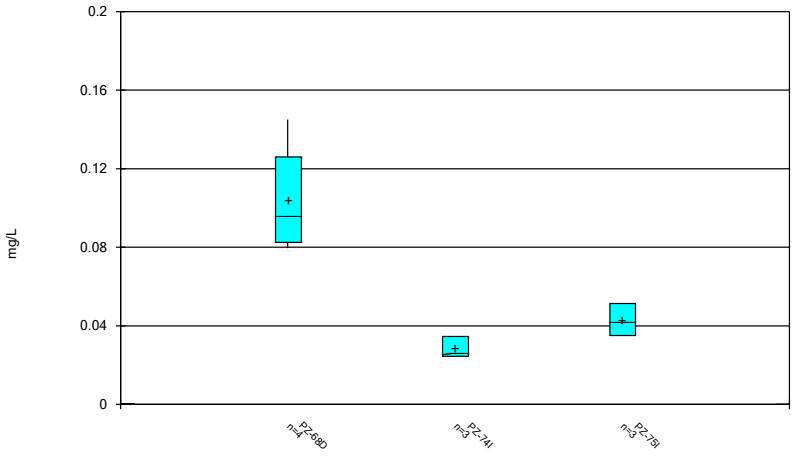
Box & Whiskers Plot



Constituent: Barium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

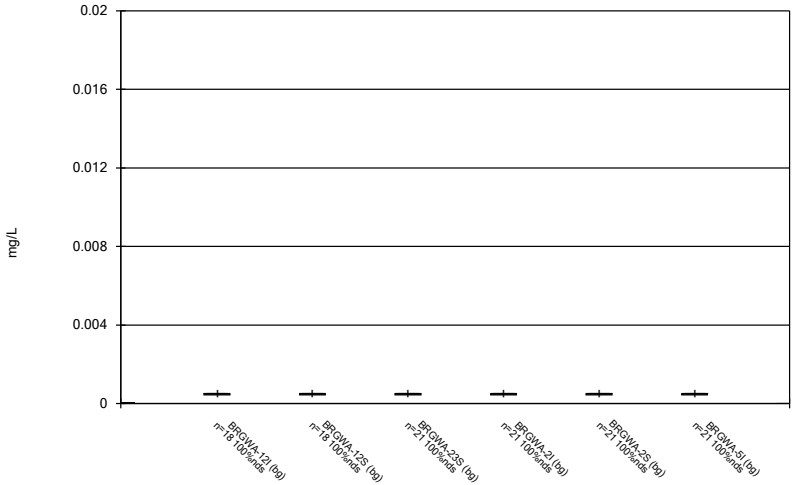
Box & Whiskers Plot



Constituent: Barium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

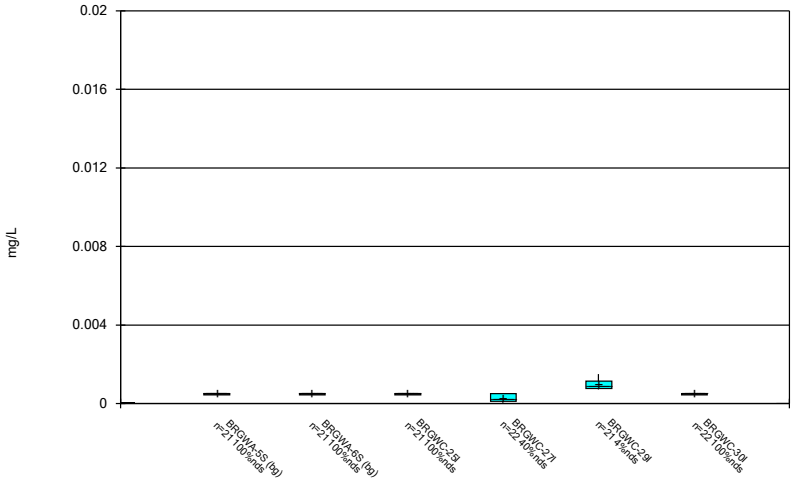
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

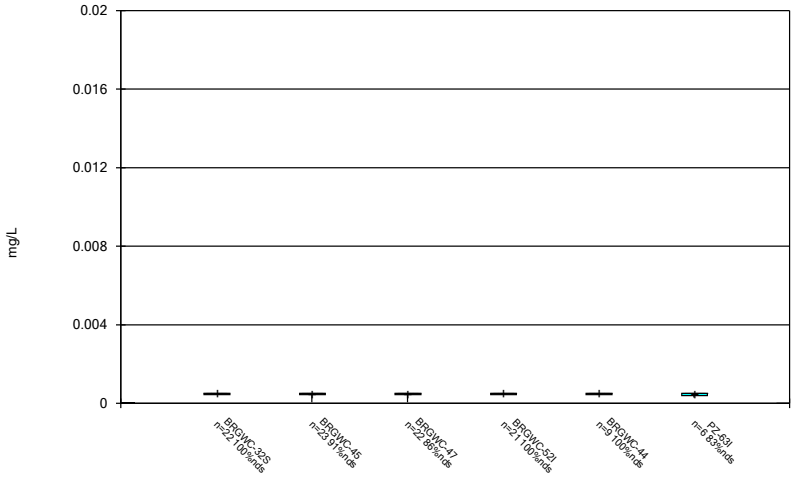
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

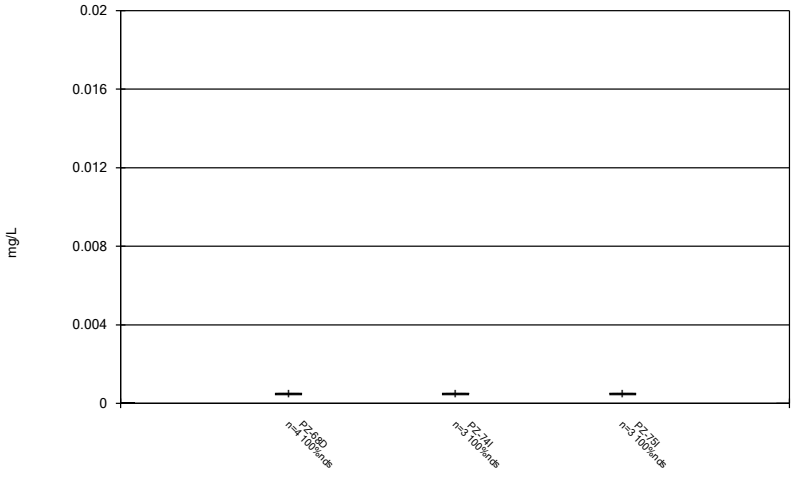
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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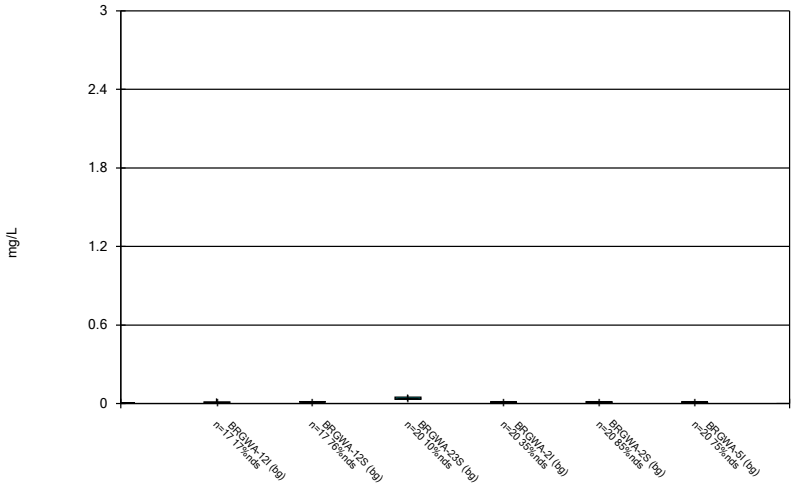
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

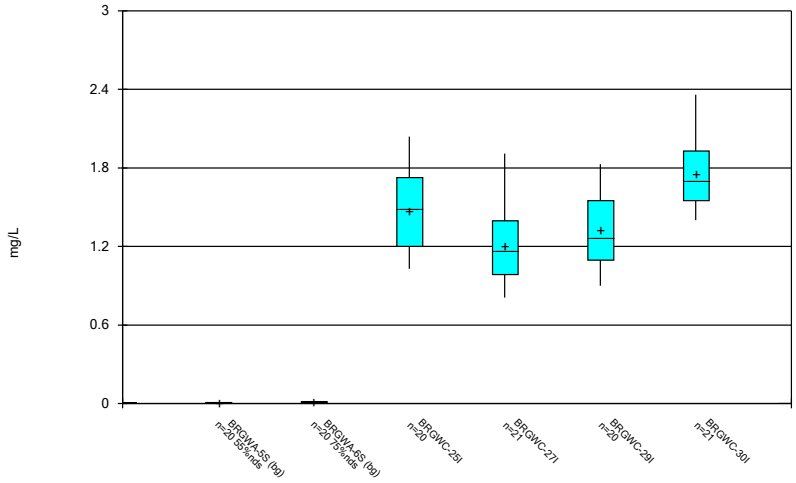
Box & Whiskers Plot



Constituent: Boron Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

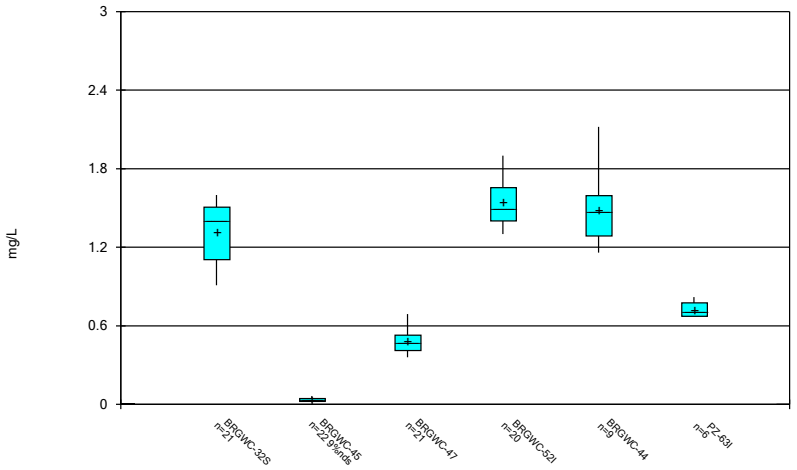
Box & Whiskers Plot



Constituent: Boron Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

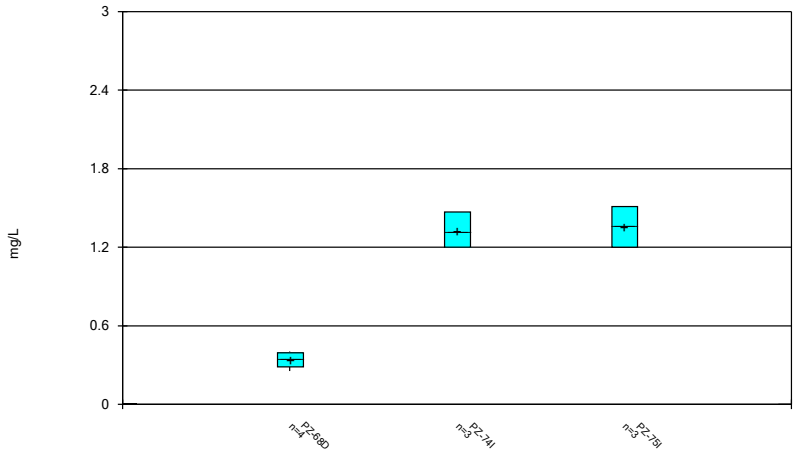
Box & Whiskers Plot



Constituent: Boron Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

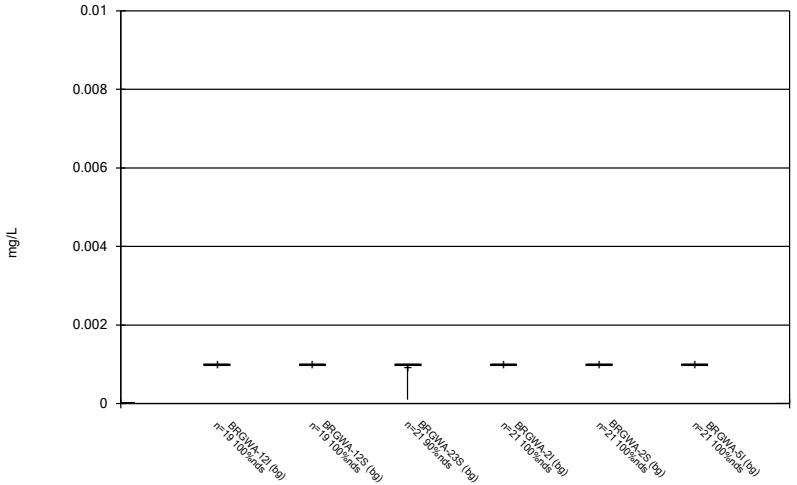
Box & Whiskers Plot



Constituent: Boron Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

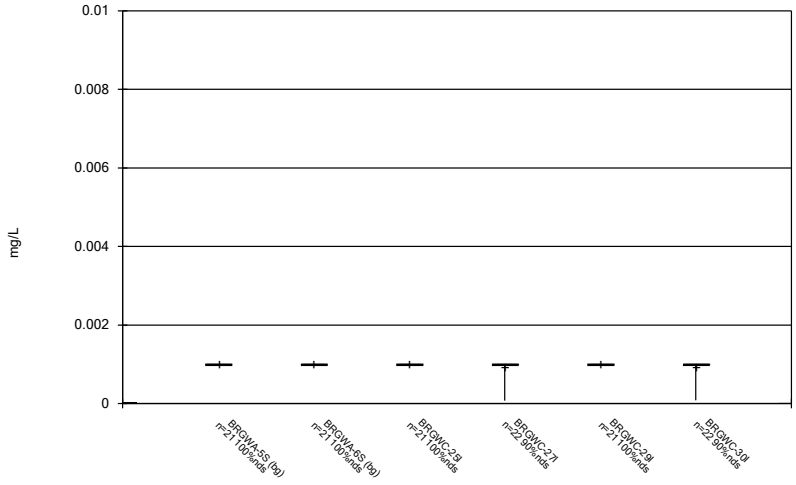
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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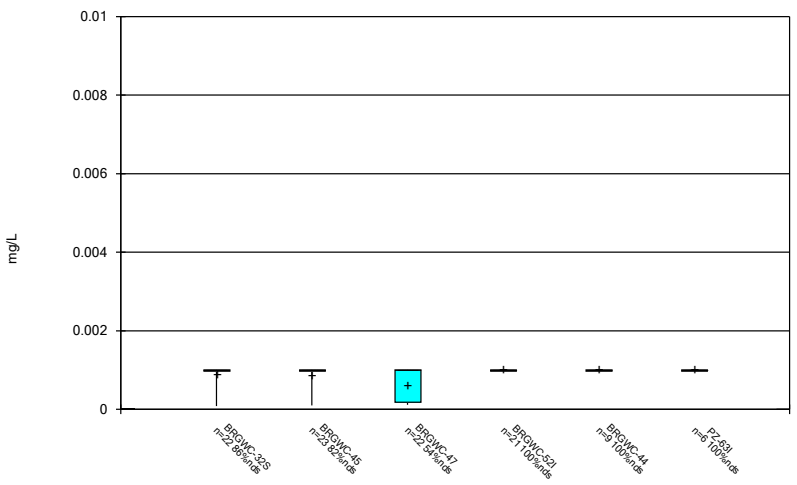
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

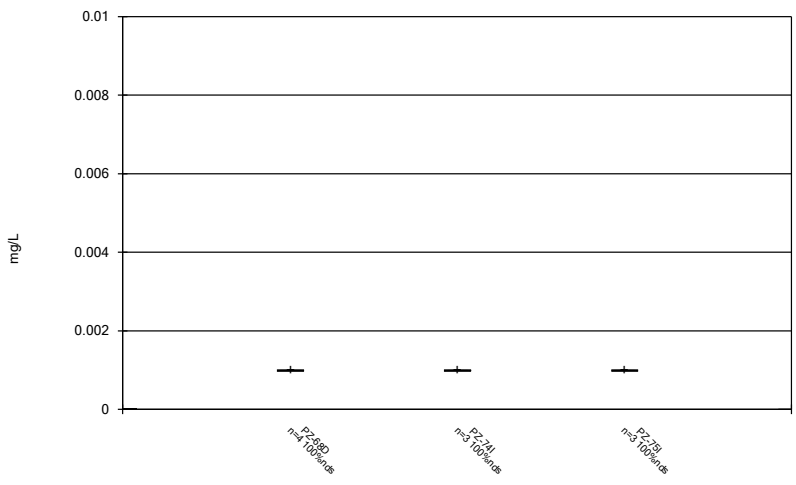
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

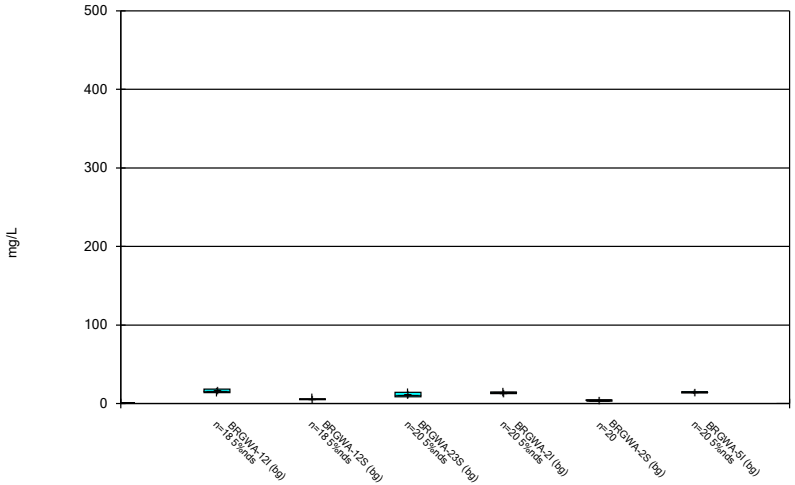
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

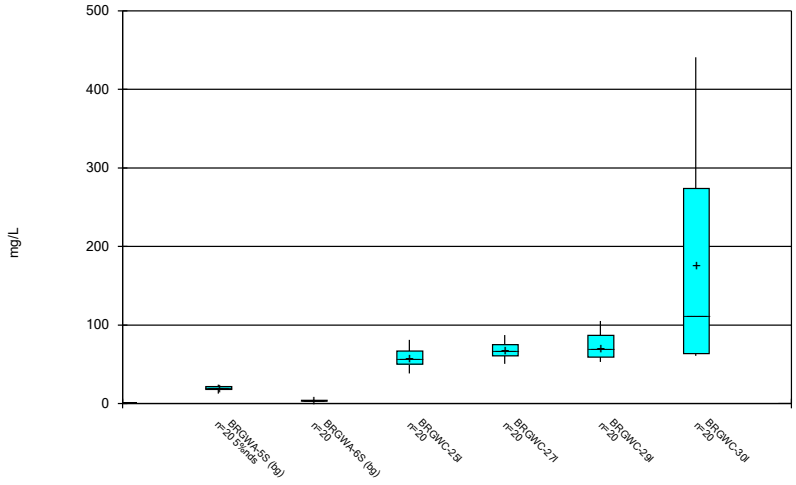
Box & Whiskers Plot



Constituent: Calcium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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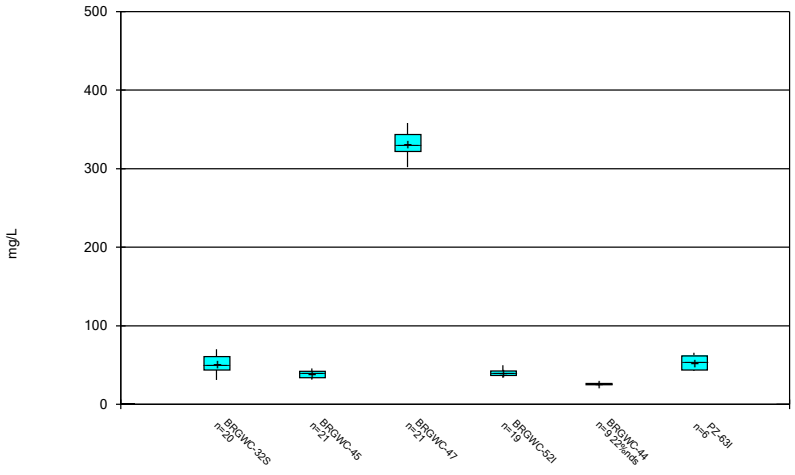
Box & Whiskers Plot



Constituent: Calcium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

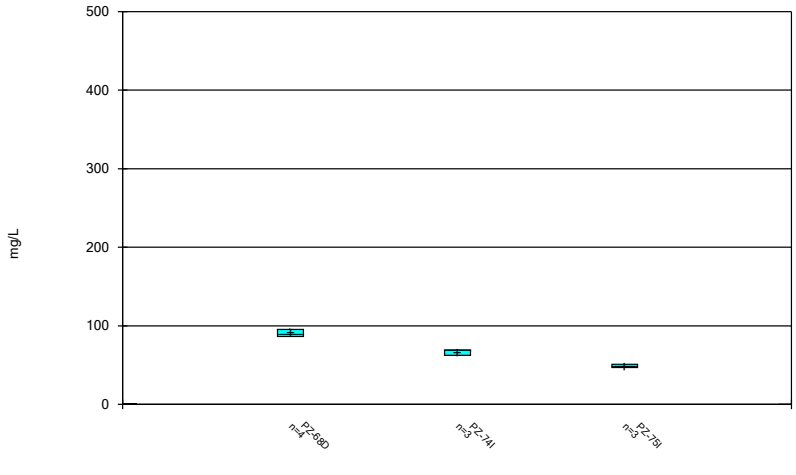
Box & Whiskers Plot



Constituent: Calcium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

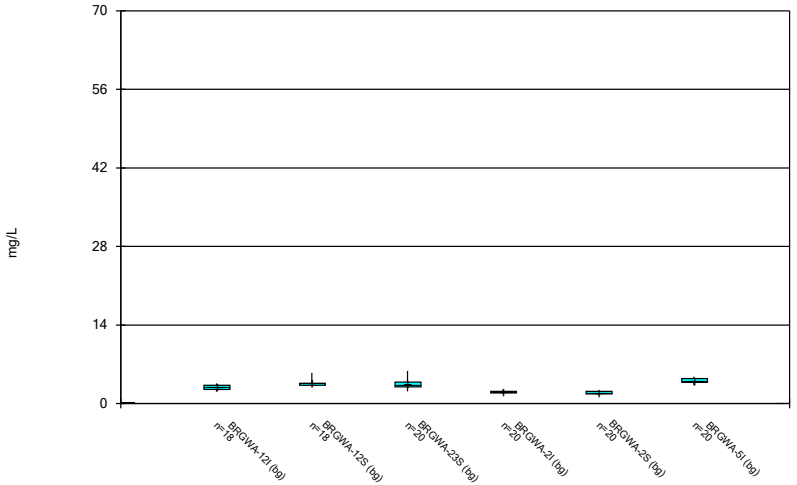
Box & Whiskers Plot



Constituent: Calcium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

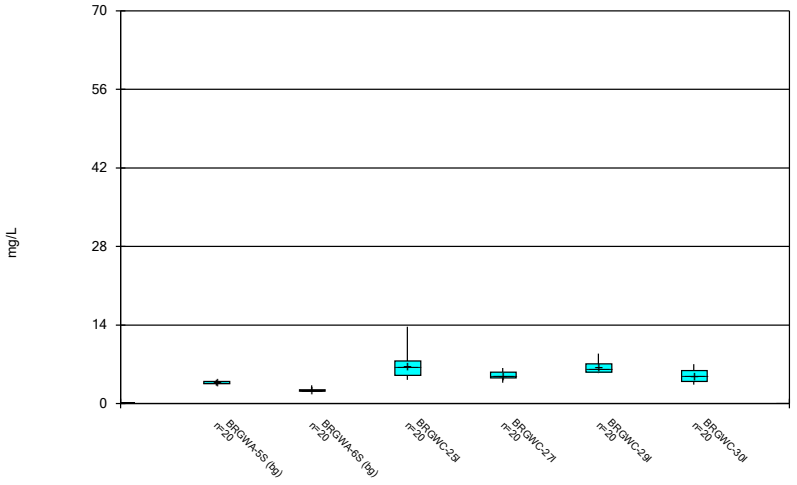
Box & Whiskers Plot



Constituent: Chloride Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

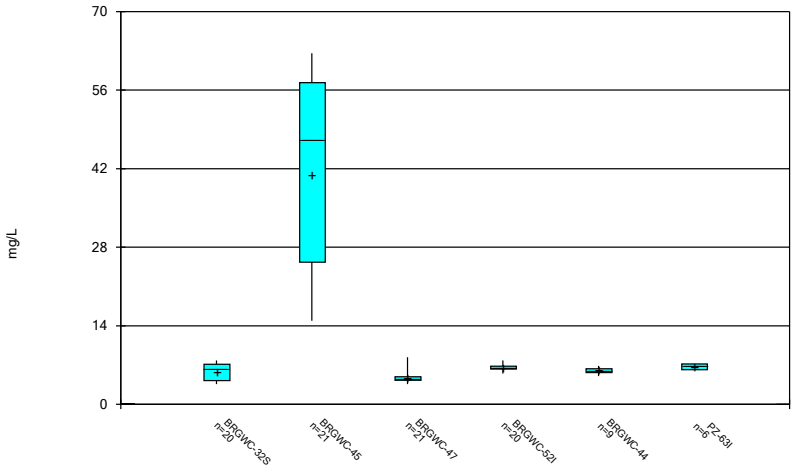
Box & Whiskers Plot



Constituent: Chloride Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

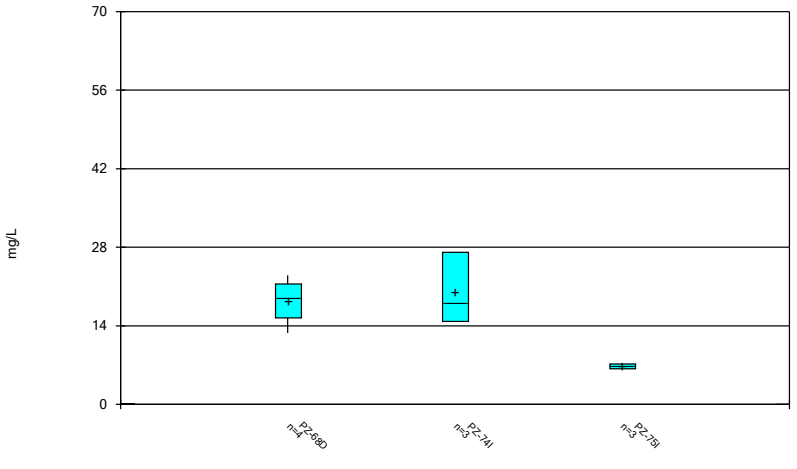
Box & Whiskers Plot



Constituent: Chloride Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

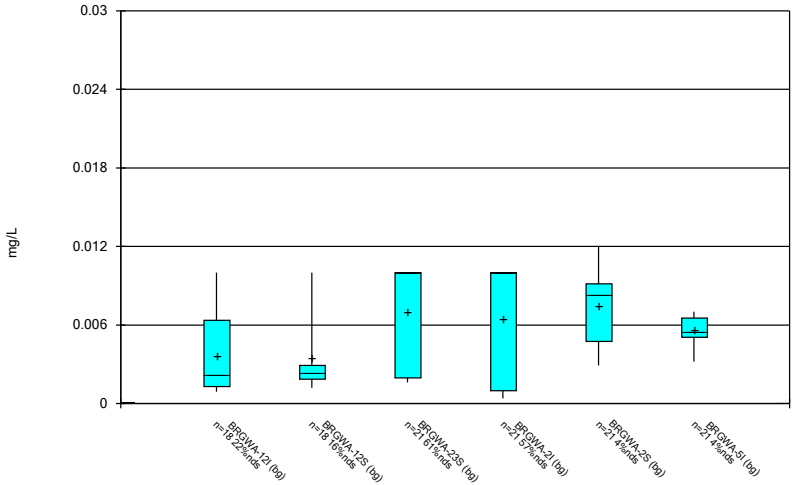
Box & Whiskers Plot



Constituent: Chloride Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

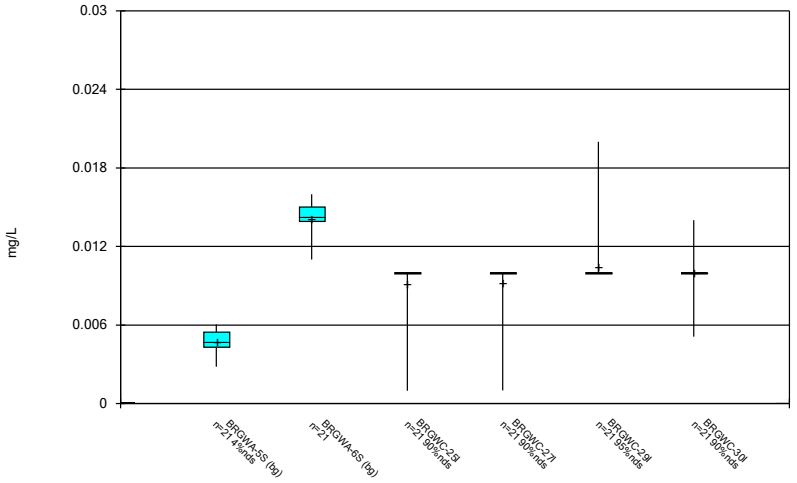
Box & Whiskers Plot



Constituent: Chromium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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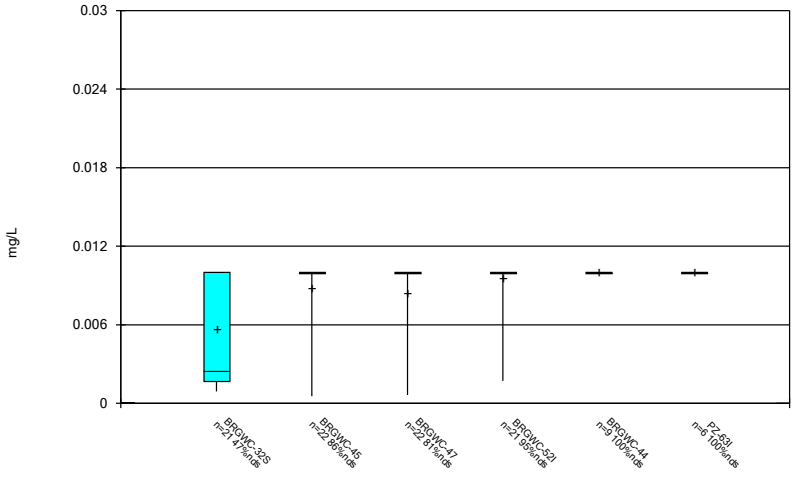
Box & Whiskers Plot



Constituent: Chromium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

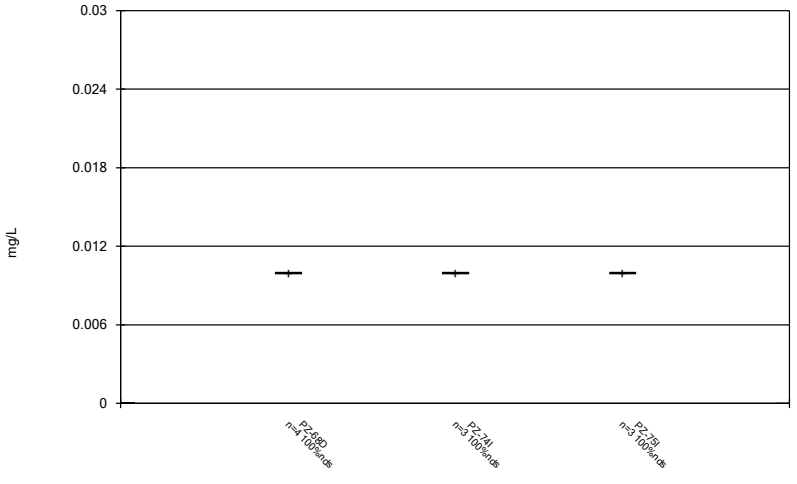
Box & Whiskers Plot



Constituent: Chromium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

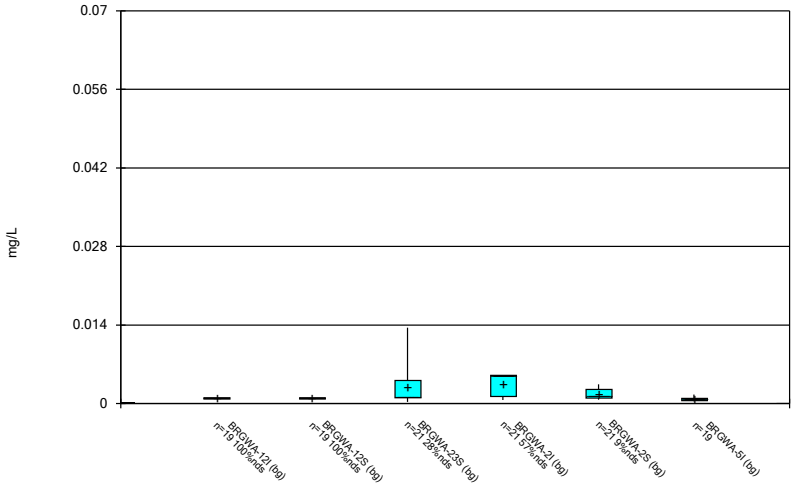
Box & Whiskers Plot



Constituent: Chromium Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

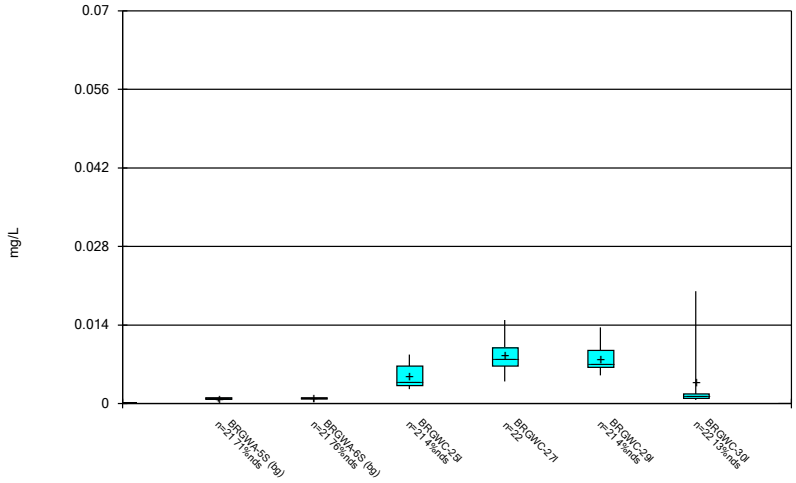
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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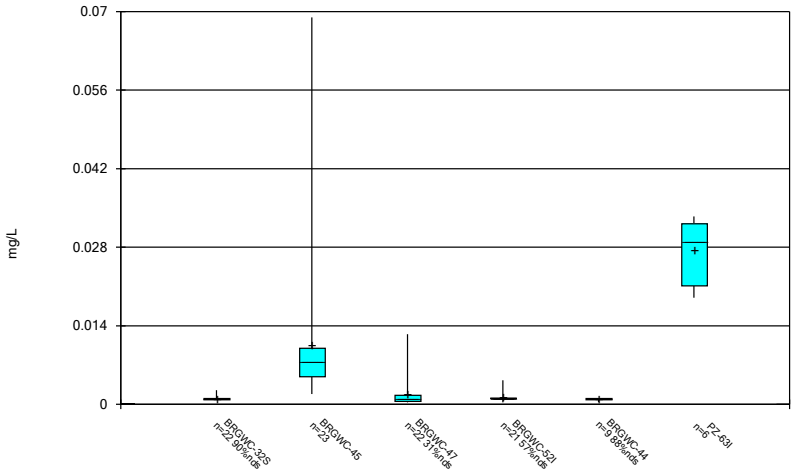
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

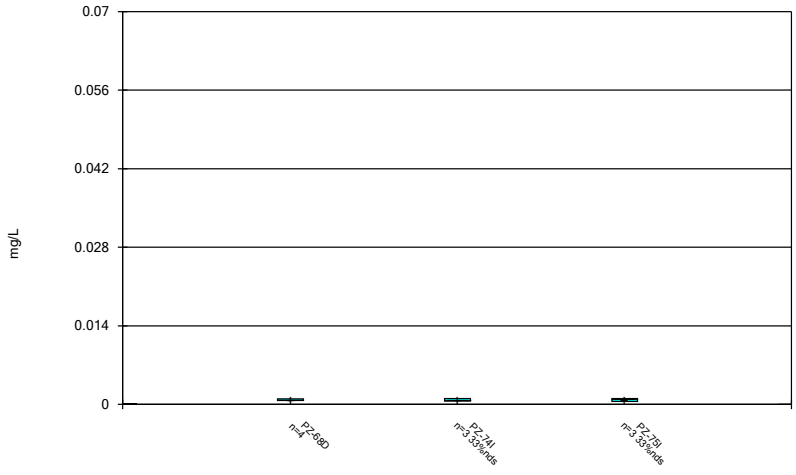
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

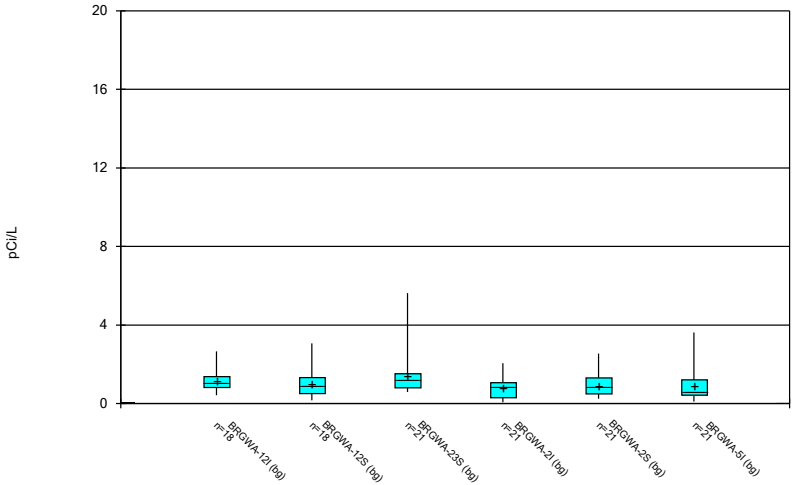
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

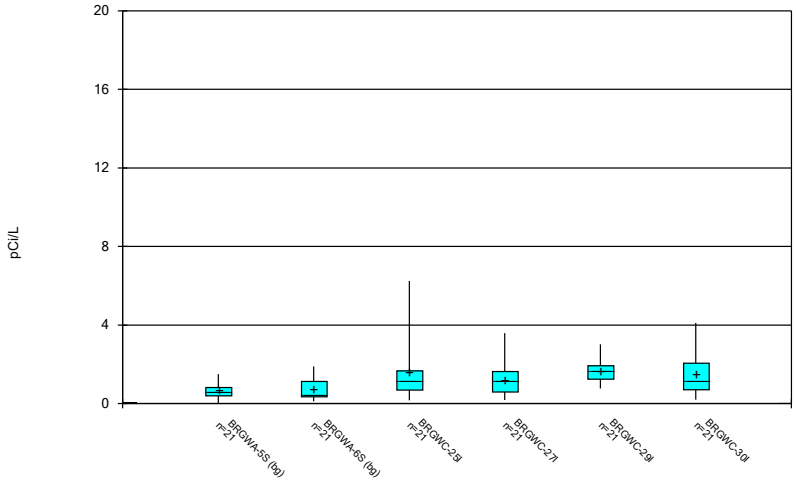
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

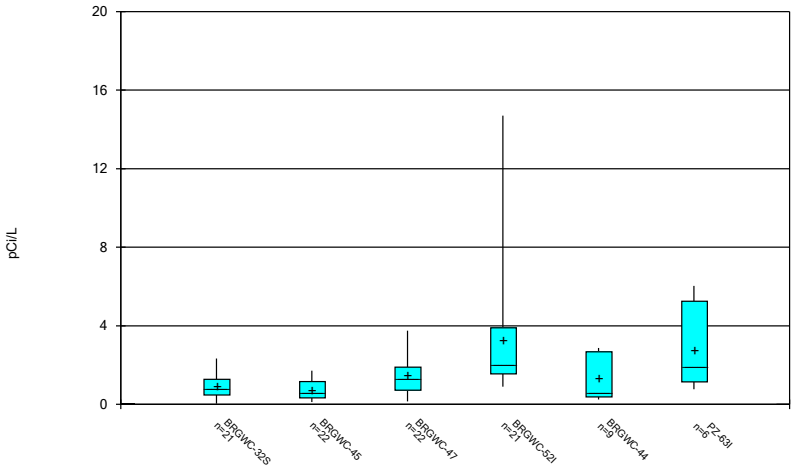
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

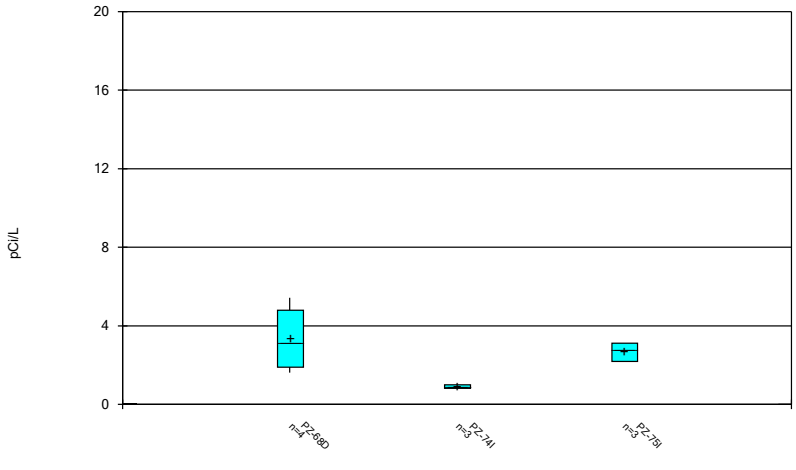
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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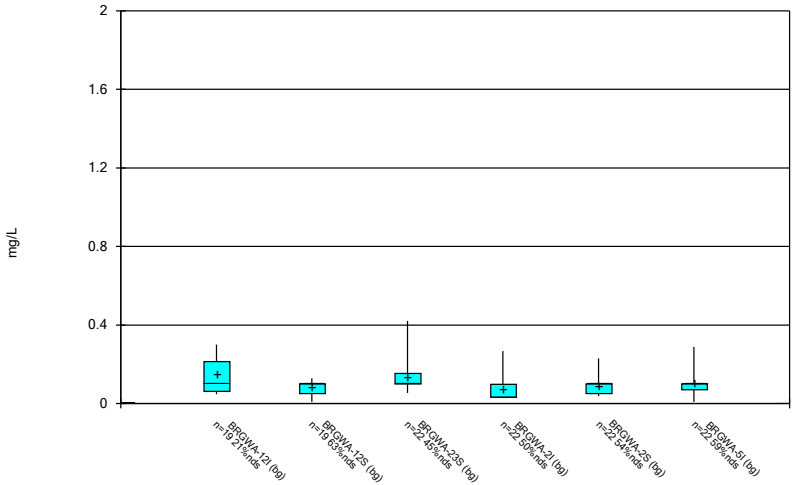
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2025 10:46 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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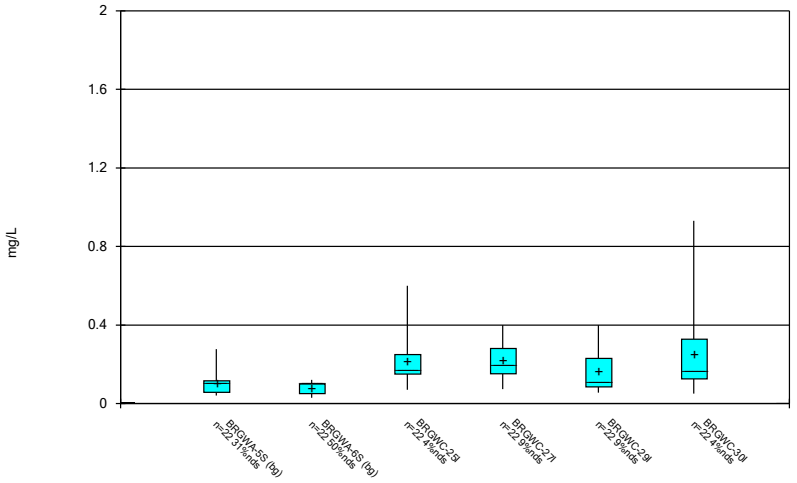
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

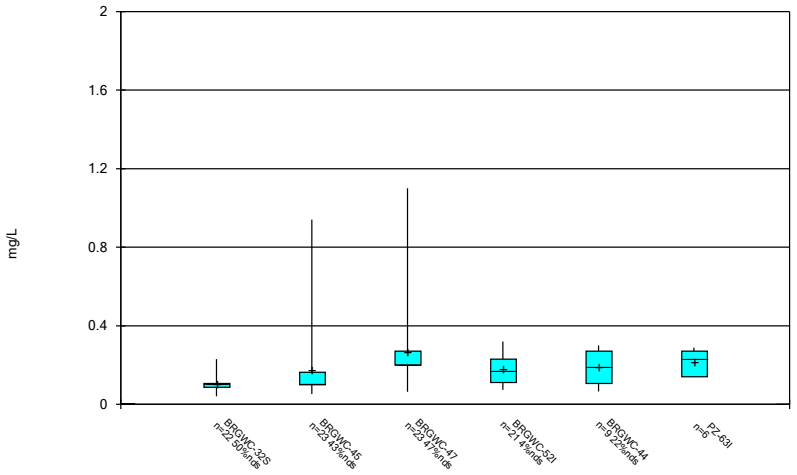
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

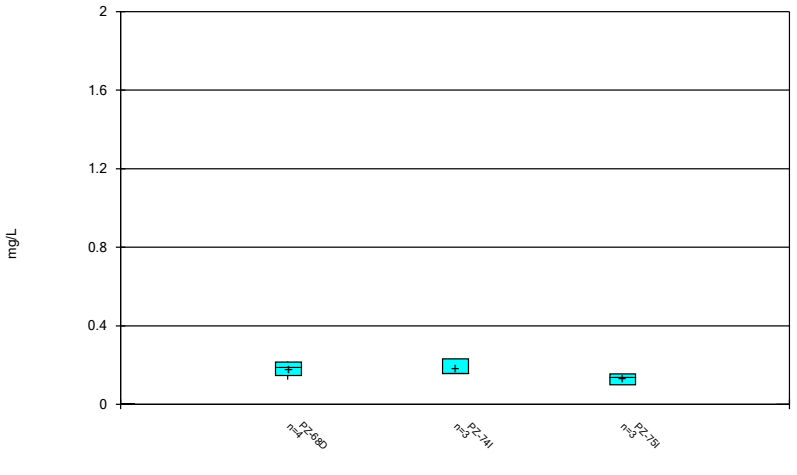
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

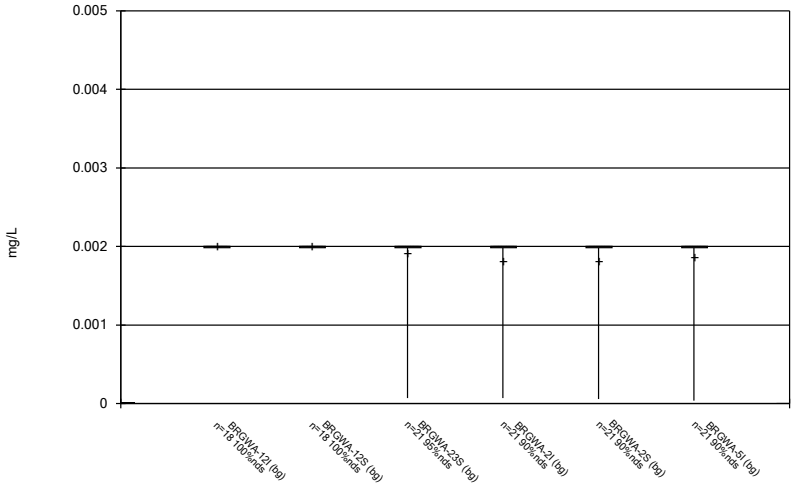
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

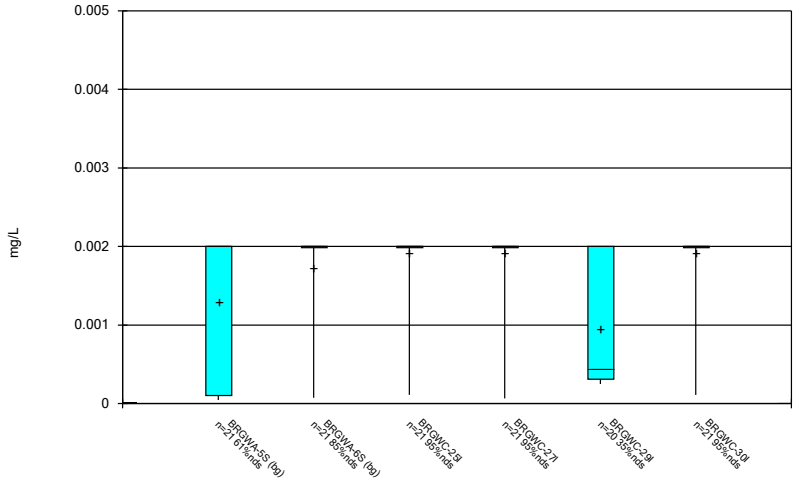
Box & Whiskers Plot



Constituent: Lead Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

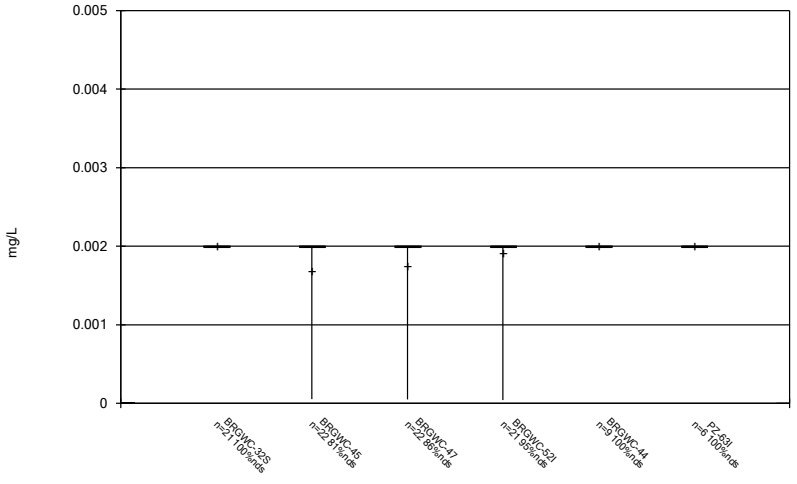
Box & Whiskers Plot



Constituent: Lead Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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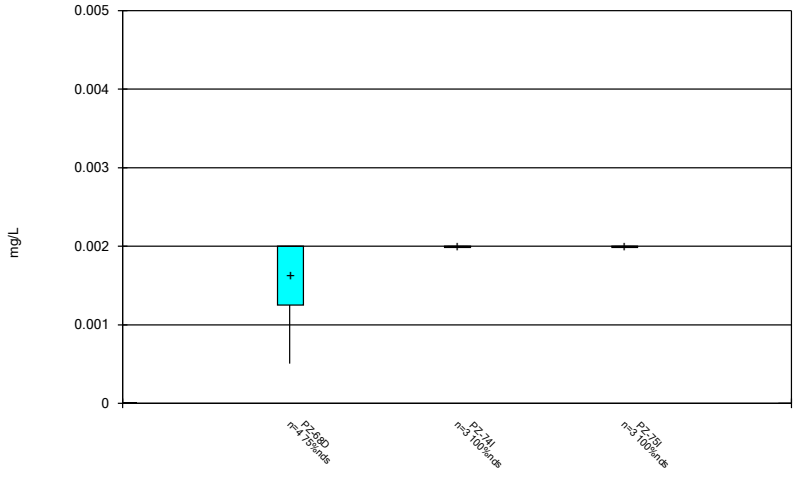
Box & Whiskers Plot



Constituent: Lead Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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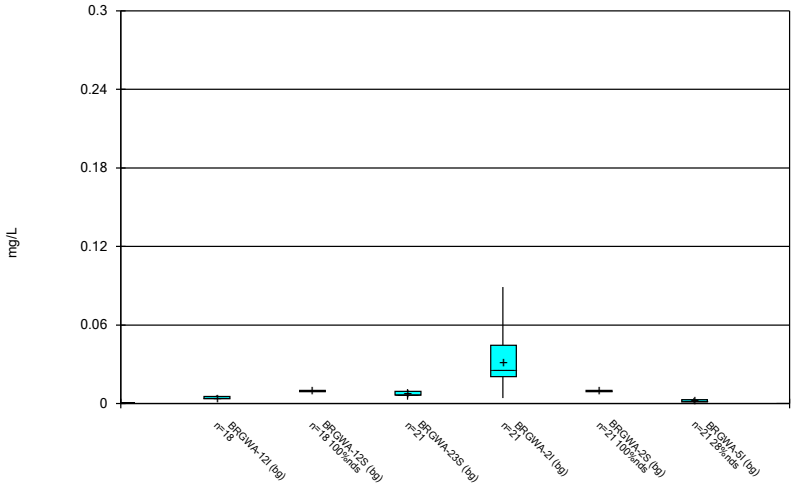
Box & Whiskers Plot



Constituent: Lead Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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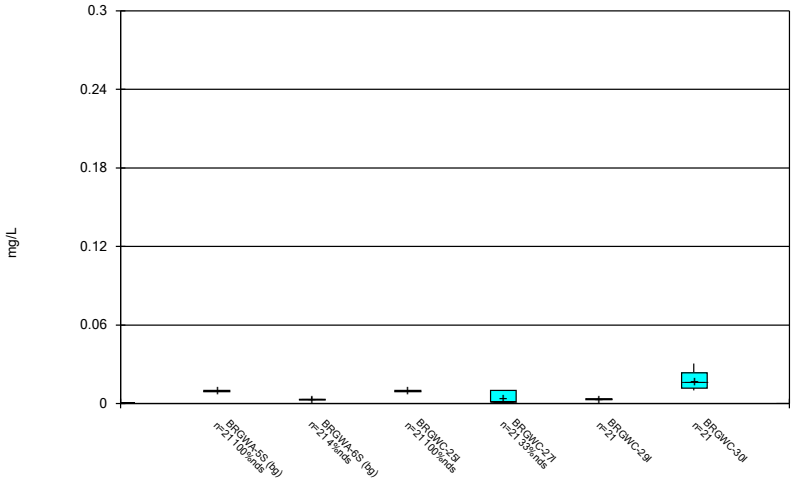
Box & Whiskers Plot



Constituent: Lithium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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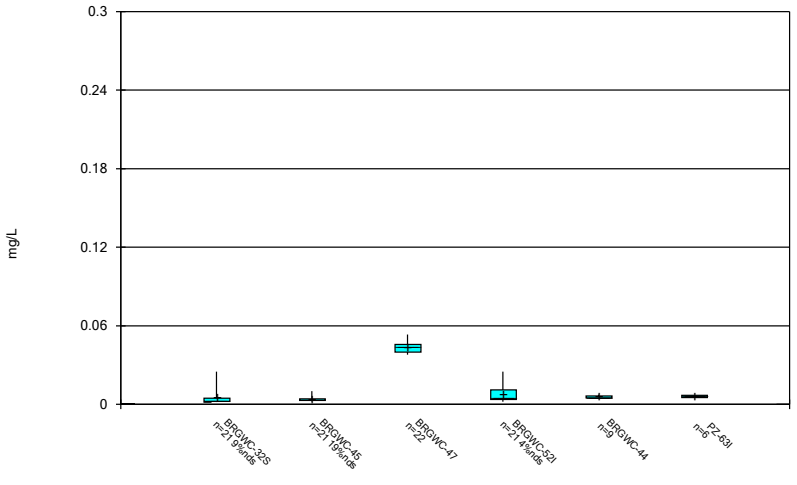
Box & Whiskers Plot



Constituent: Lithium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

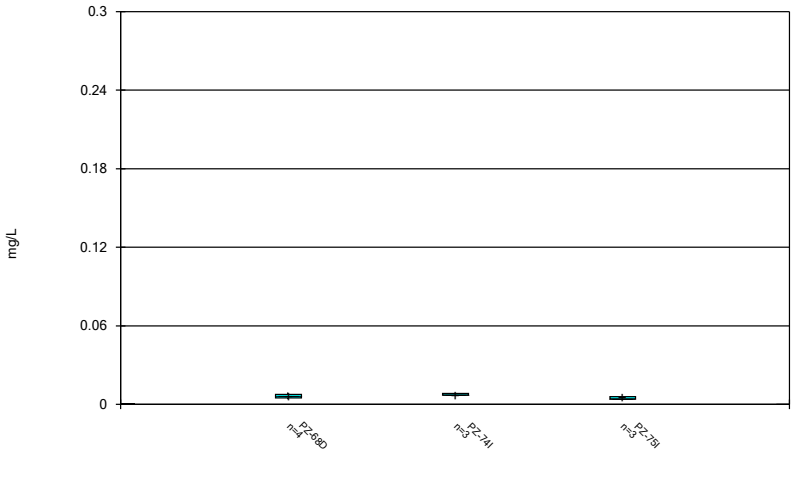
Box & Whiskers Plot



Constituent: Lithium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

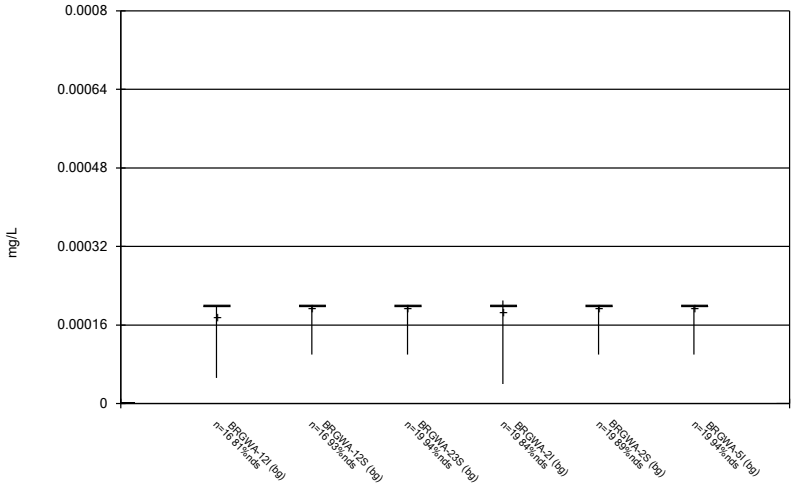
Box & Whiskers Plot



Constituent: Lithium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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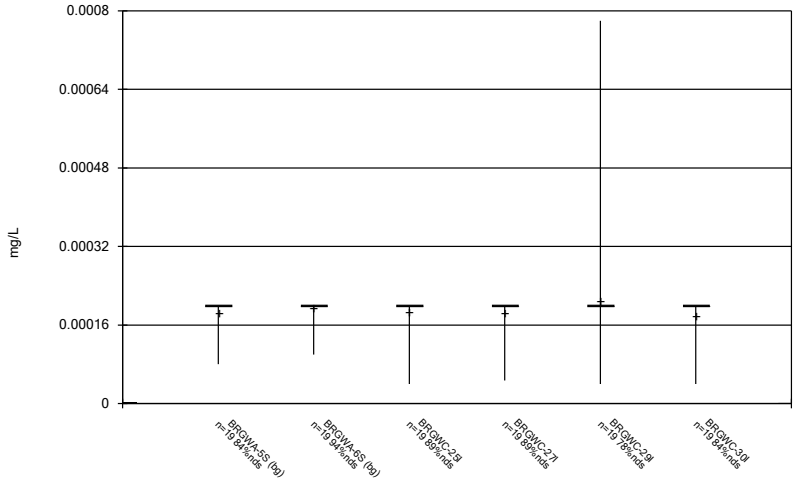
Box & Whiskers Plot



Constituent: Mercury Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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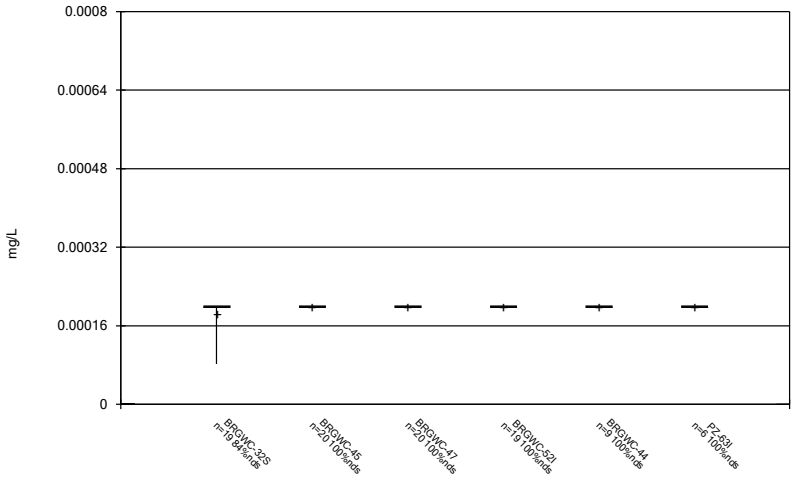
Box & Whiskers Plot



Constituent: Mercury Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

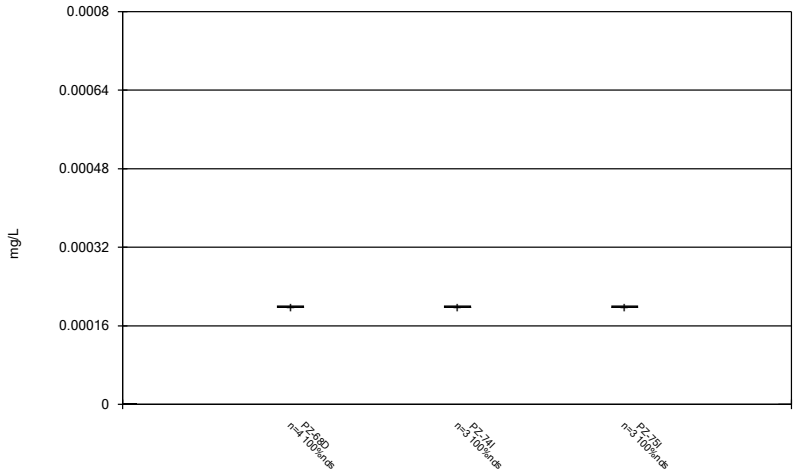
Box & Whiskers Plot



Constituent: Mercury Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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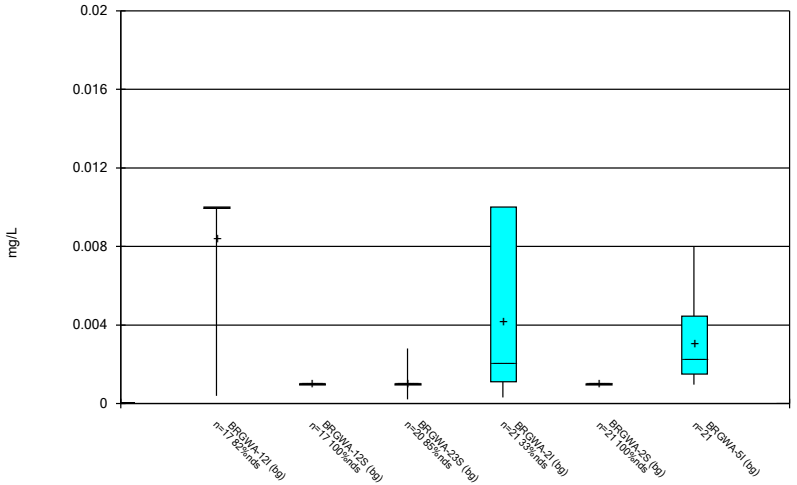
Box & Whiskers Plot



Constituent: Mercury Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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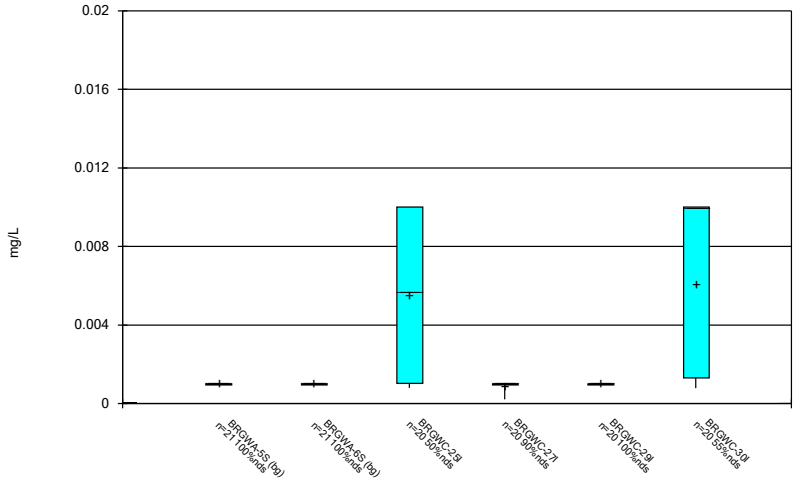
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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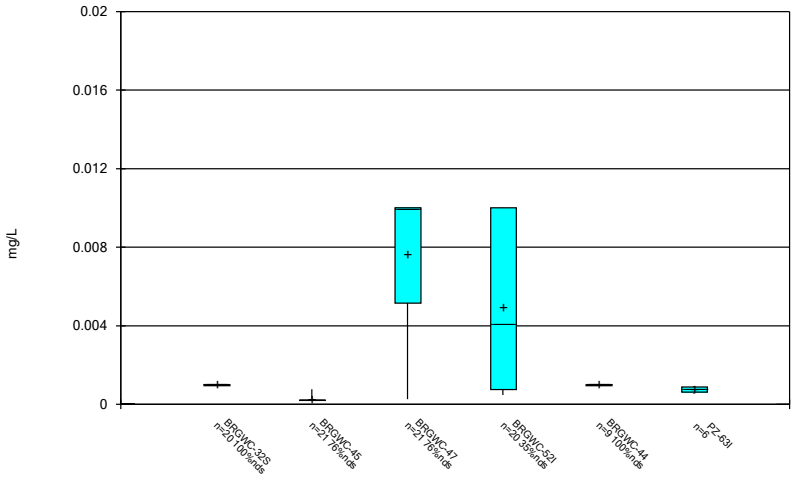
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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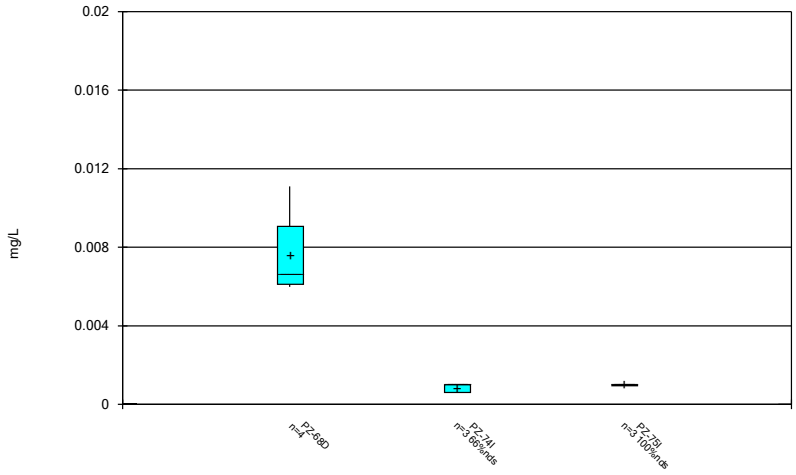
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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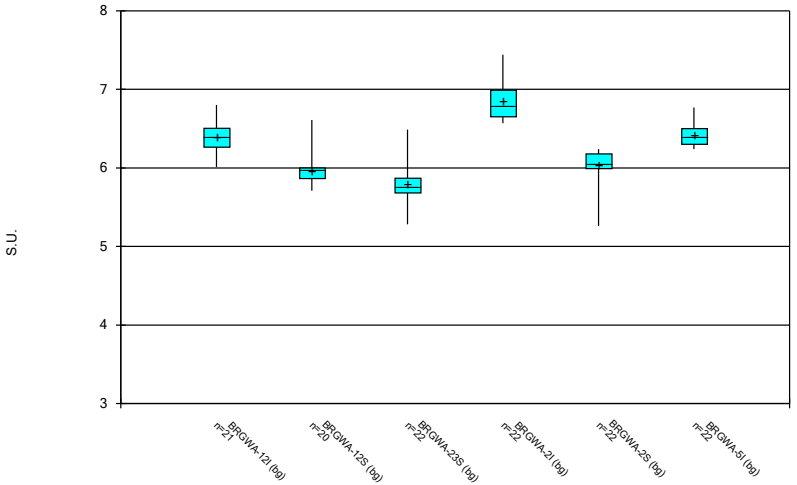
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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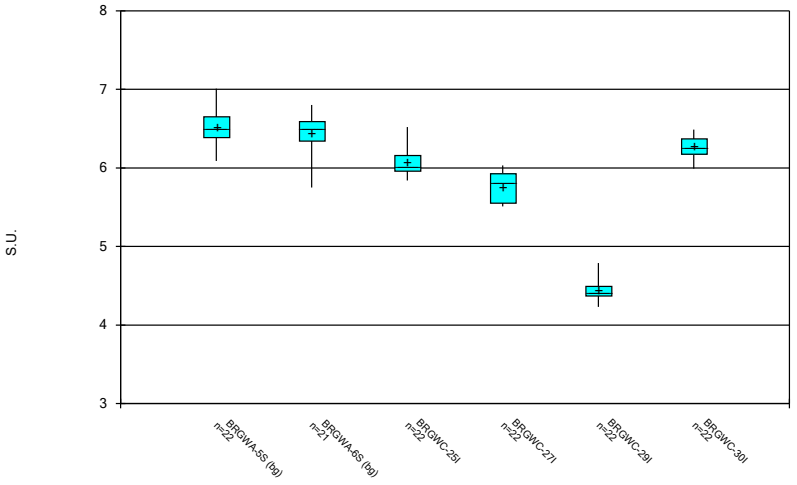
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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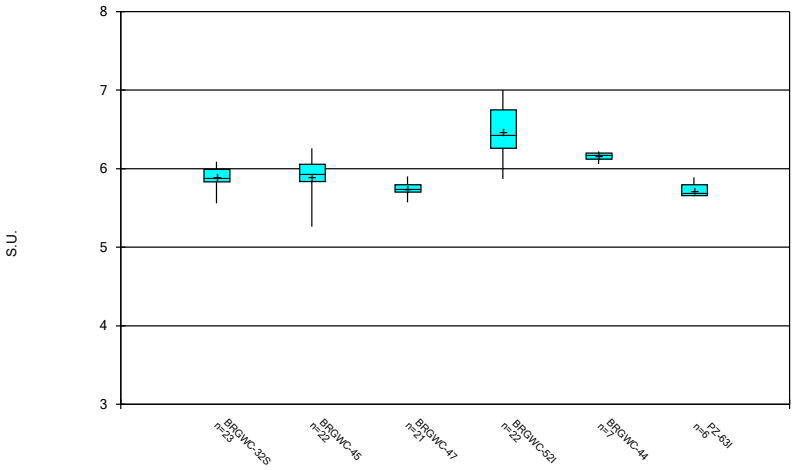
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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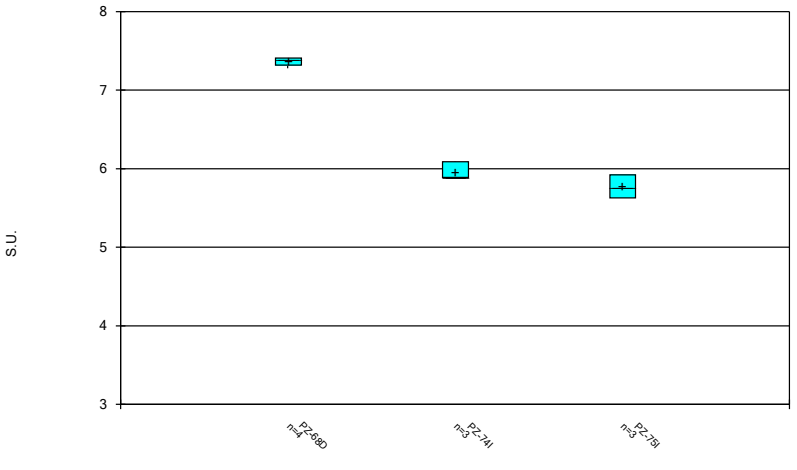
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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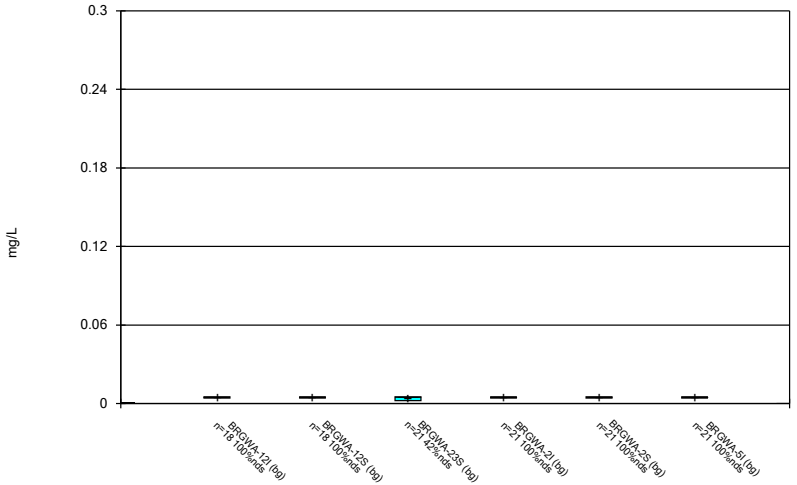
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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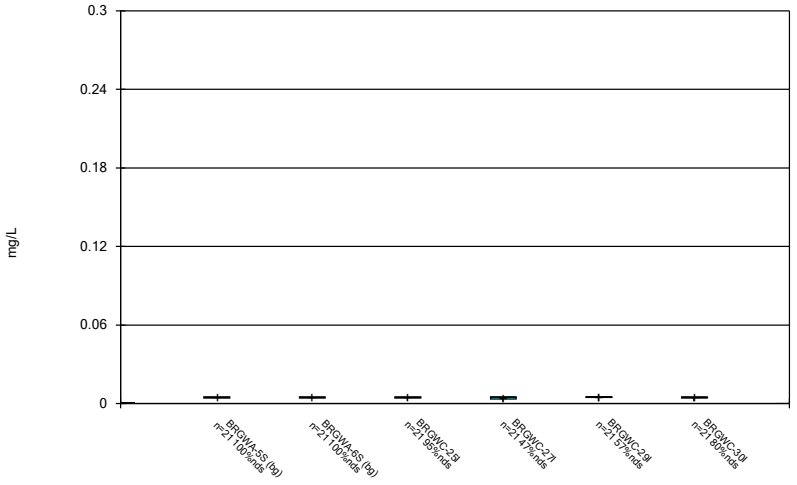
Box & Whiskers Plot



Constituent: Selenium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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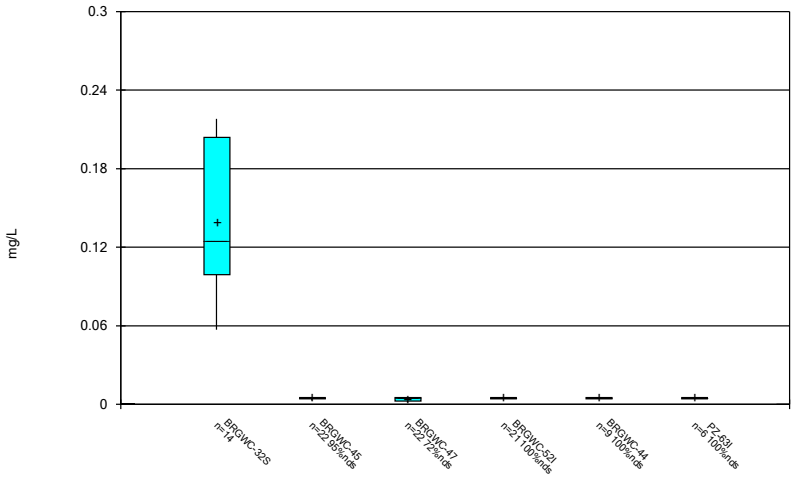
Box & Whiskers Plot



Constituent: Selenium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

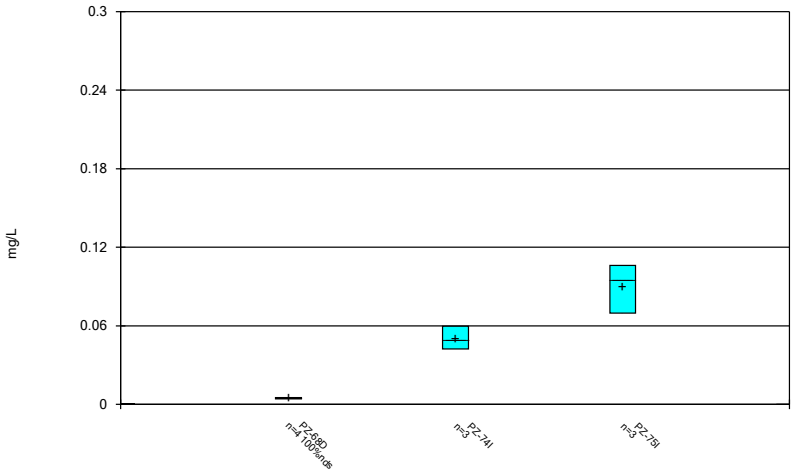
Box & Whiskers Plot



Constituent: Selenium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

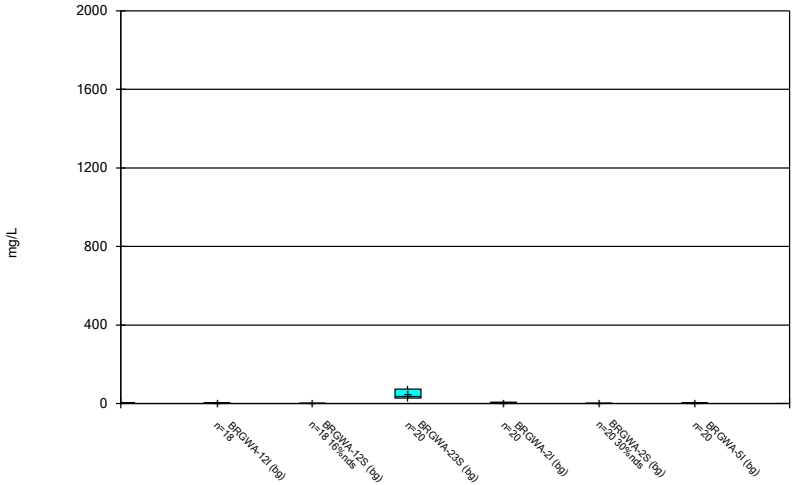
Box & Whiskers Plot



Constituent: Selenium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

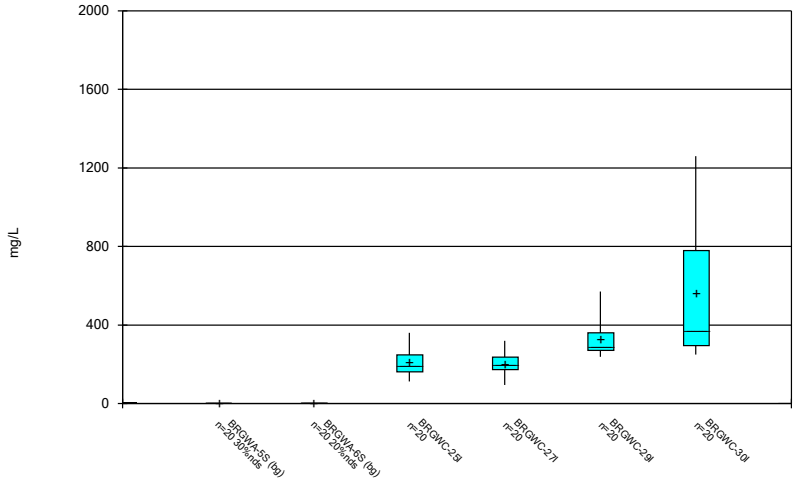
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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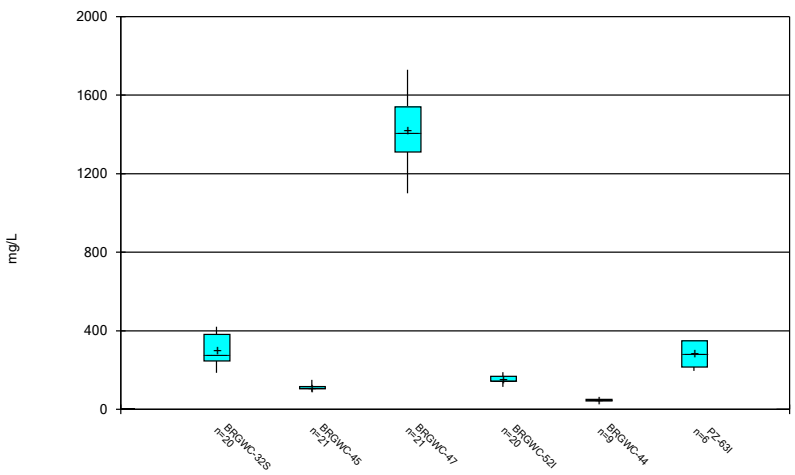
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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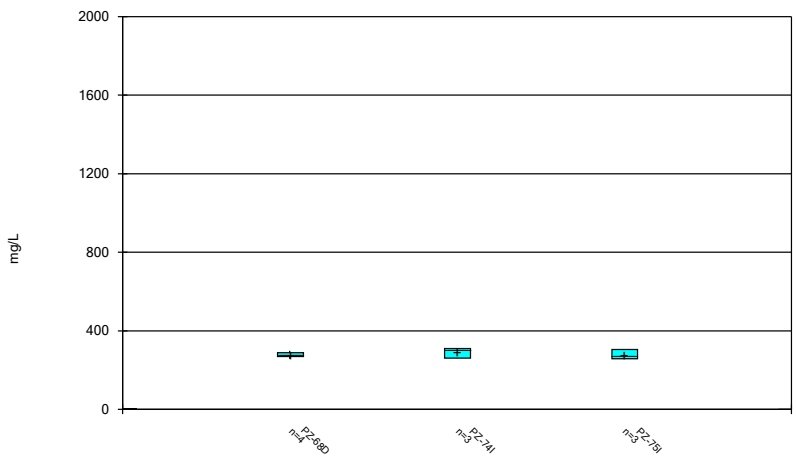
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

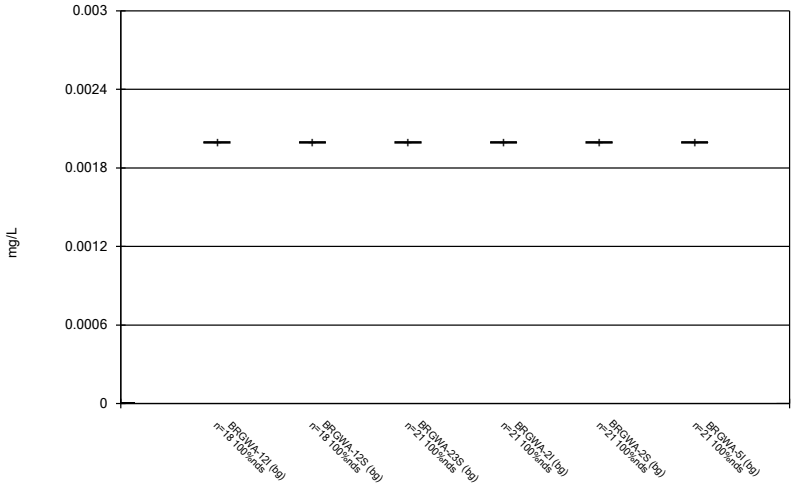
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

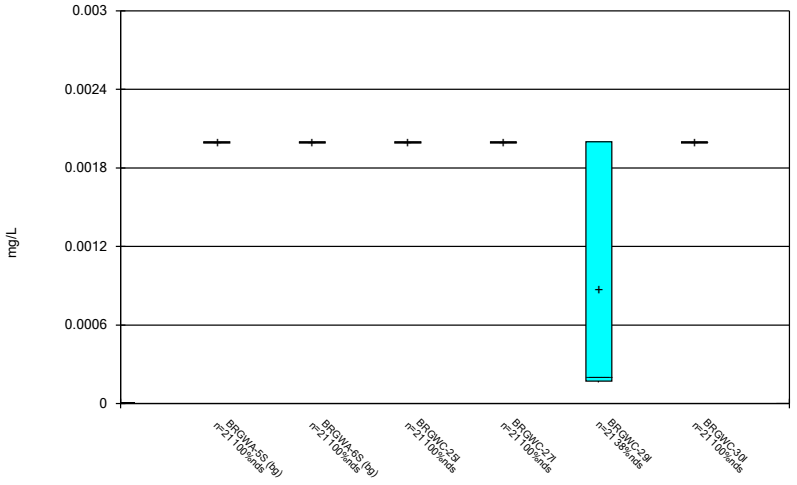
Box & Whiskers Plot



Constituent: Thallium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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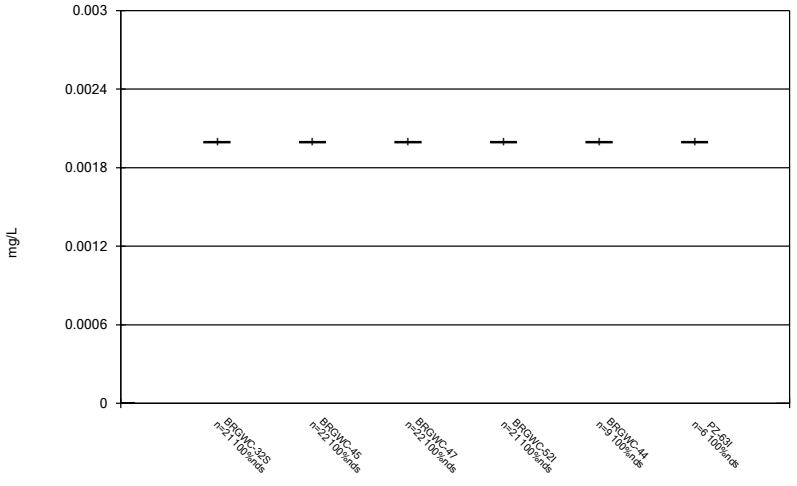
Box & Whiskers Plot



Constituent: Thallium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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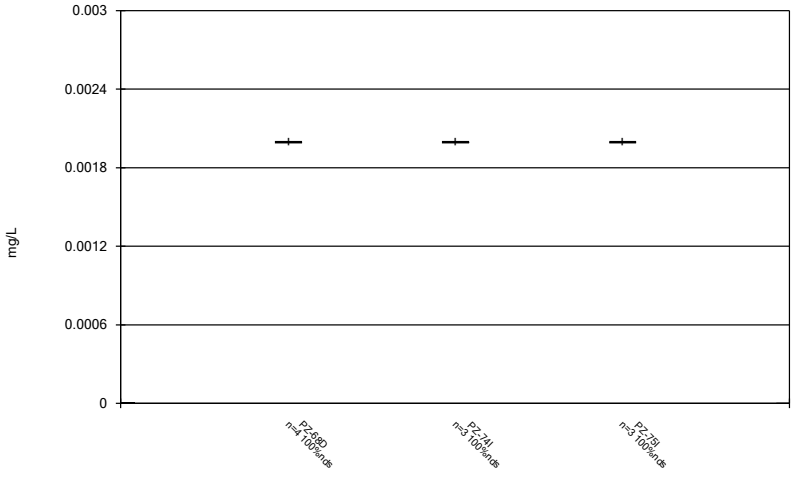
Box & Whiskers Plot



Constituent: Thallium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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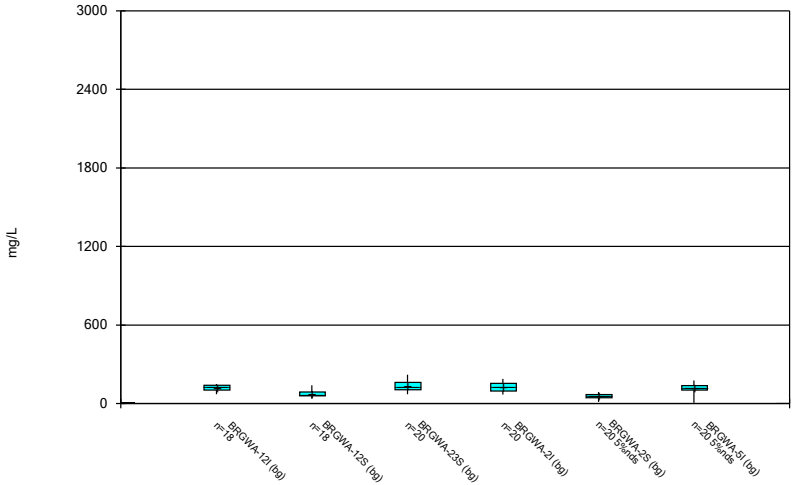
Box & Whiskers Plot



Constituent: Thallium Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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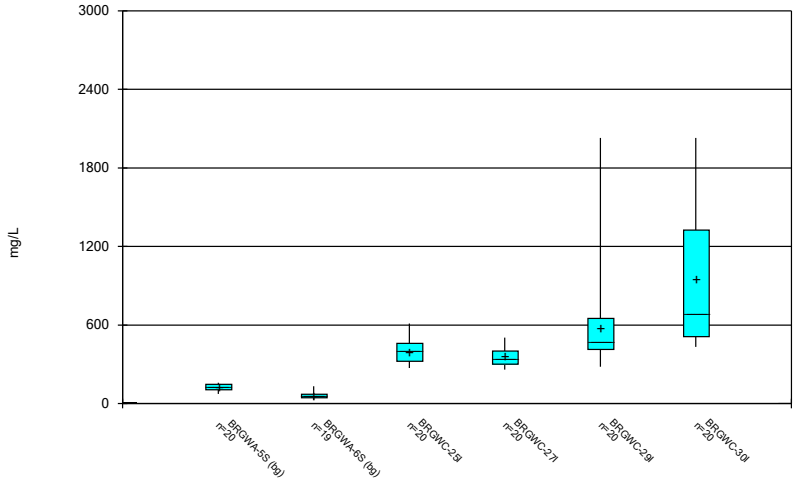
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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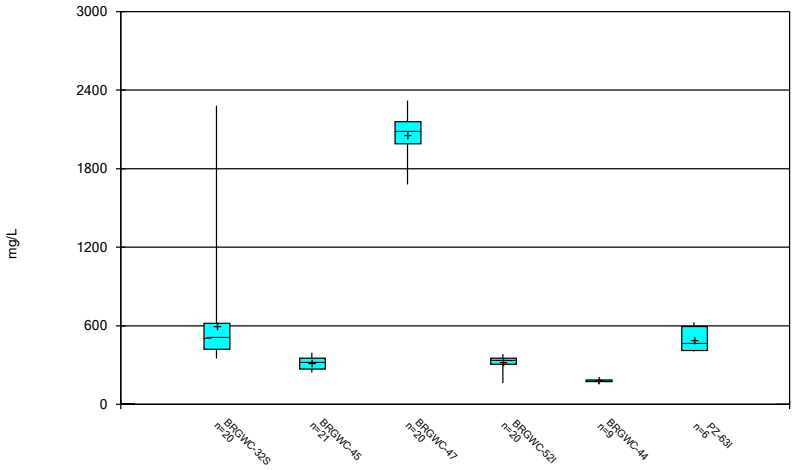
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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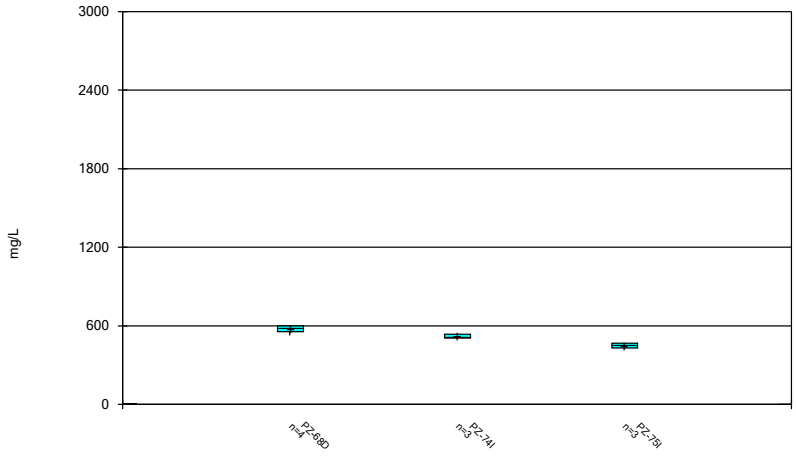
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

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Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/10/2025 10:47 AM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 4:01 PM

	BRGWC-52I Calcium (mg/L)	BRGWA-5I Cobalt (mg/L)	BRGWC-52I Fluoride (mg/L)	BRGWC-29I Lead (mg/L)	BRGWC-45 Lithium (mg/L)	BRGWA-6S Total Dissolved Solids (mg/L)	BRGWC-47 Total Dissolved Solids (mg/L)
9/1/2016					299 (o)		
11/16/2016		<0.01 (o)					
2/13/2018		<0.01 (o)					
2/14/2018			<0.002 (o)				
6/27/2018						31 (OX)	
7/31/2018				<0.01 (o)			
8/10/2018	410 (O)	1.6 (O)					

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	8/29/2024	2.04	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	8/27/2024	1.28	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	8/27/2024	1.09	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	8/28/2024	1.82	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	8/28/2024	0.996	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	8/28/2024	0.508	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	8/28/2024	1.44	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-44	0.068	n/a	8/27/2024	1.16	Yes	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	8/29/2024	77.6	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	8/27/2024	75.9	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	8/27/2024	70.5	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	8/28/2024	419	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	8/28/2024	37.4	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	8/29/2024	42.9	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	8/28/2024	302	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	8/28/2024	36.8	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-44	24	n/a	8/27/2024	24.9	Yes	156	n/a	n/a	3.846	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	8/29/2024	13.7	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	8/27/2024	8.87	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	8/29/2024	24.8	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	8/28/2024	6.58	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-44	5.8	n/a	8/27/2024	5.99	Yes	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.034	5.577	8/27/2024	4.47	Yes	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-47	7.034	5.577	8/28/2024	5.57	Yes	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	8/29/2024	216	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	8/27/2024	174	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	8/27/2024	261	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	8/28/2024	1260	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	8/28/2024	201	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	8/29/2024	150	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	8/28/2024	1310	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	8/28/2024	150	Yes	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	183.3	n/a	8/29/2024	492	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	183.3	n/a	8/27/2024	346	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	183.3	n/a	8/27/2024	424	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	183.3	n/a	8/28/2024	2030	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	183.3	n/a	8/28/2024	374	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	183.3	n/a	8/29/2024	353	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	183.3	n/a	8/28/2024	1780	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	183.3	n/a	8/28/2024	310	Yes	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-25I**	**0.068**	**n/a**	**8/29/2024**	**2.04**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-27I**	**0.068**	**n/a**	**8/27/2024**	**1.28**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-29I**	**0.068**	**n/a**	**8/27/2024**	**1.09**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-30I**	**0.068**	**n/a**	**8/28/2024**	**1.82**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-32S**	**0.068**	**n/a**	**8/28/2024**	**0.996**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-45	0.068	n/a	8/29/2024	0.0431	No	154	n/a	n/a	53.9	n/a	n/a	0.00008335	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-47**	**0.068**	**n/a**	**8/28/2024**	**0.508**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-52I**	**0.068**	**n/a**	**8/28/2024**	**1.44**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-44**	**0.068**	**n/a**	**8/27/2024**	**1.16**	**Yes**	**154**	**n/a**	**n/a**	**53.9**	**n/a**	**n/a**	**0.00008335**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-25I**	**24**	**n/a**	**8/29/2024**	**77.6**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-27I**	**24**	**n/a**	**8/27/2024**	**75.9**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-29I**	**24**	**n/a**	**8/27/2024**	**70.5**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-30I**	**24**	**n/a**	**8/28/2024**	**419**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-32S**	**24**	**n/a**	**8/28/2024**	**37.4**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-45**	**24**	**n/a**	**8/29/2024**	**42.9**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-47**	**24**	**n/a**	**8/28/2024**	**302**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-52I**	**24**	**n/a**	**8/28/2024**	**36.8**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-44**	**24**	**n/a**	**8/27/2024**	**24.9**	**Yes**	**156**	**n/a**	**n/a**	**3.846**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-25I**	**5.8**	**n/a**	**8/29/2024**	**13.7**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-27I	5.8	n/a	8/27/2024	4.47	No	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-29I**	**5.8**	**n/a**	**8/27/2024**	**8.87**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-30I	5.8	n/a	8/28/2024	3.48	No	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	8/28/2024	4.09	No	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-45**	**5.8**	**n/a**	**8/29/2024**	**24.8**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-47	5.8	n/a	8/28/2024	4.57	No	156	n/a	n/a	0	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-52I**	**5.8**	**n/a**	**8/28/2024**	**6.58**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-44**	**5.8**	**n/a**	**8/27/2024**	**5.99**	**Yes**	**156**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	8/29/2024	0.248	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	8/27/2024	0.382	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	8/27/2024	0.0849J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	8/28/2024	0.336J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	8/28/2024	0.0511J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	8/29/2024	0.078J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	8/28/2024	0.033ND	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	8/28/2024	0.0748J	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-44	0.42	n/a	8/27/2024	0.193	No	170	n/a	n/a	47.06	n/a	n/a	0.00006849	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-25I	7.034	5.577	8/29/2024	6.52	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-27I	7.034	5.577	8/27/2024	5.95	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-29I**	**7.034**	**5.577**	**8/27/2024**	**4.47**	**Yes**	**172**	**6.305**	**0.3796**	**0**	**None**	**No**	**0.0004179**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-30I	7.034	5.577	8/28/2024	6.49	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-32S	7.034	5.577	8/28/2024	6.05	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-45	7.034	5.577	8/29/2024	6.26	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-47**	**7.034**	**5.577**	**8/28/2024**	**5.57**	**Yes**	**172**	**6.305**	**0.3796**	**0**	**None**	**No**	**0.0004179**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-52I	7.034	5.577	8/28/2024	6.49	No	172	6.305	0.3796	0	None	No	0.0004179	Param Inter 1 of 2
Sulfate (mg/L)	**BRGWC-25I**	**89**	**n/a**	**8/29/2024**	**216**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-27I**	**89**	**n/a**	**8/27/2024**	**174**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-29I**	**89**	**n/a**	**8/27/2024**	**261**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-30I**	**89**	**n/a**	**8/28/2024**	**1260**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-32S**	**89**	**n/a**	**8/28/2024**	**201**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-45**	**89**	**n/a**	**8/29/2024**	**150**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-47**	**89**	**n/a**	**8/28/2024**	**1310**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-52I**	**89**	**n/a**	**8/28/2024**	**150**	**Yes**	**156**	**n/a**	**n/a**	**12.18**	**n/a**	**n/a**	**0.00008104**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-44	89	n/a	8/27/2024	41.8	No	156	n/a	n/a	12.18	n/a	n/a	0.00008104	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**183.3**	**n/a**	**8/29/2024**	**492**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**183.3**	**n/a**	**8/27/2024**	**346**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:06 AM

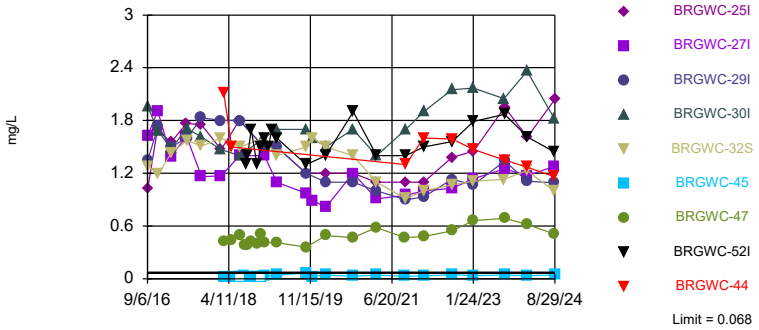
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids (mg/L)	**BRGWC-29I**	**183.3**	**n/a**	**8/27/2024**	**424**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**183.3**	**n/a**	**8/28/2024**	**2030**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**183.3**	**n/a**	**8/28/2024**	**374**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**183.3**	**n/a**	**8/29/2024**	**353**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**183.3**	**n/a**	**8/28/2024**	**1780**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-52I**	**183.3**	**n/a**	**8/28/2024**	**310**	**Yes**	**155**	**102**	**42.34**	**1.29**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	BRGWC-44	183.3	n/a	8/27/2024	180	No	155	102	42.34	1.29	None	No	0.0008358	Param Inter 1 of 2

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Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-52I, BRGWC-44

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 154 background values. 53.9% NDs. Annual per-constituent alpha = 0.001499. Individual comparison alpha = 0.00008335 (1 of 2). Comparing 9 points to limit.

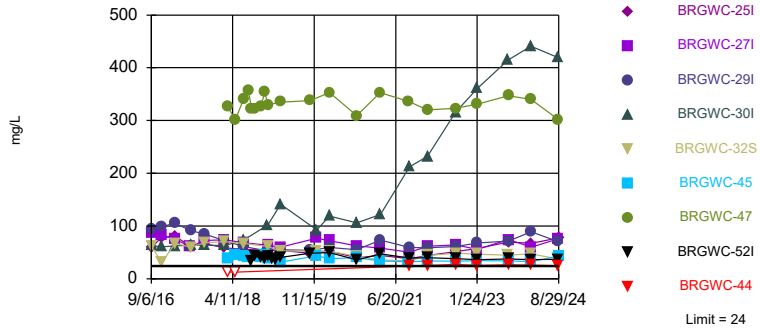
Constituent: Boron Analysis Run 1/10/2025 11:02 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 156 background values. 3.846% NDs. Annual per-constituent alpha = 0.001458. Individual comparison alpha = 0.00008104 (1 of 2). Comparing 9 points to limit.

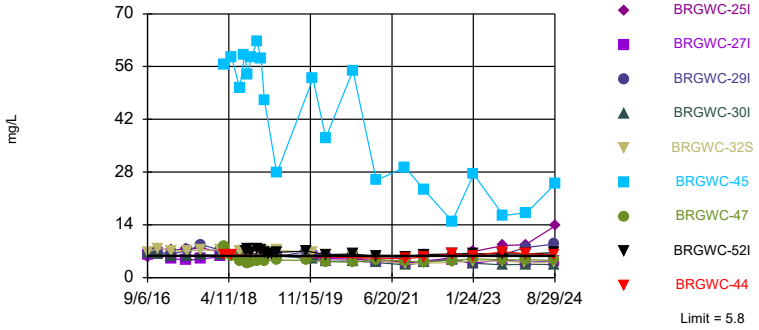
Constituent: Calcium Analysis Run 1/10/2025 11:02 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

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Exceeds Limit: BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-52I, BRGWC-44

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 156 background values. Annual per-constituent alpha = 0.001458. Individual comparison alpha = 0.00008104 (1 of 2). Comparing 9 points to limit.

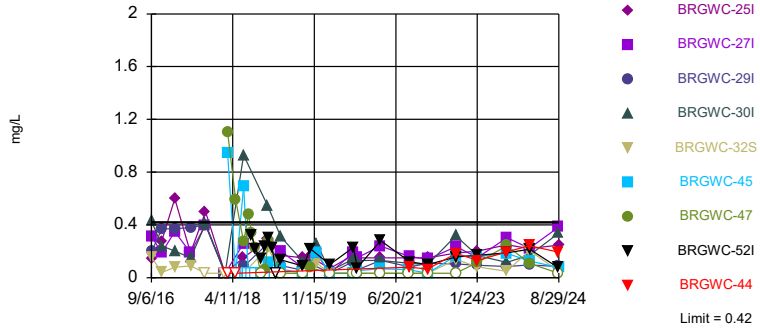
Constituent: Chloride Analysis Run 1/10/2025 11:02 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 170 background values. 47.06% NDs. Annual per-constituent alpha = 0.001232. Individual comparison alpha = 0.00006849 (1 of 2). Comparing 9 points to limit.

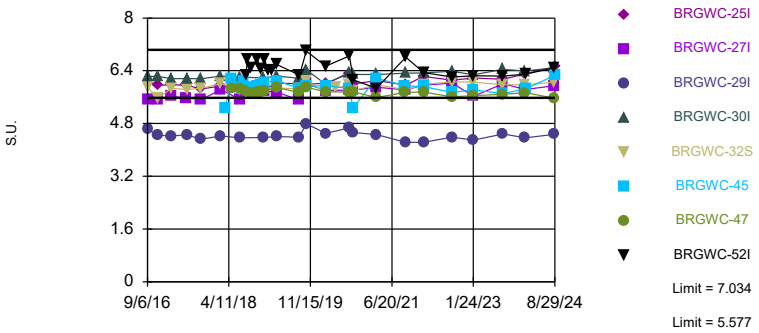
Constituent: Fluoride Analysis Run 1/10/2025 11:02 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

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Exceeds Limits: BRGWC-29I, BRGWC-47

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=6.305, Std. Dev.=0.3796, n=172. Normality test: Chi Squared @alpha = 0.01, calculated = 7.535, critical = 14.07. Kappa = 1.918 (c=7, w=9, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0004179. Comparing 8 points to limit. Assumes 1 future value.

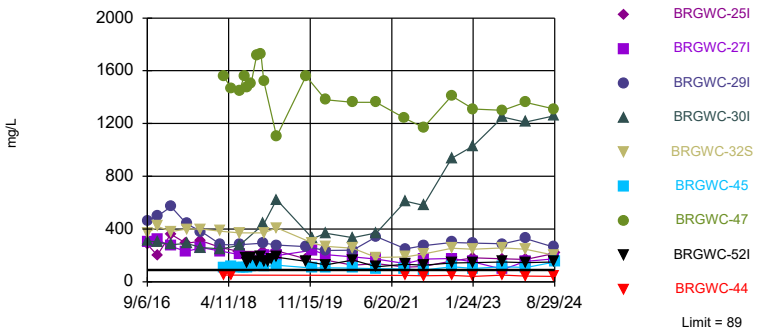
Constituent: pH, Field Analysis Run 1/10/2025 11:02 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 156 background values. 12.18% NDs. Annual per-constituent alpha = 0.001458. Individual comparison alpha = 0.00008104 (1 of 2). Comparing 9 points to limit.

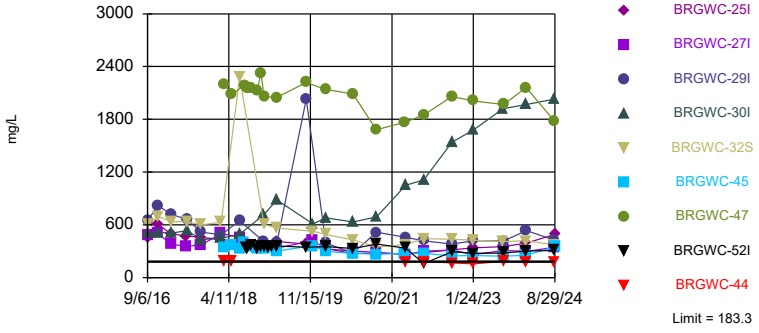
Constituent: Sulfate Analysis Run 1/10/2025 11:02 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=102, Std. Dev.=42.34, n=155, 1.29% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 11.52, critical = 14.07. Kappa = 1.918 (c=7, w=9, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0008358. Comparing 9 points to limit.

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:02 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/10/2025 11:06 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	<0.015	0.0072 (J)	<0.015	<0.015					
9/1/2016					<0.015	<0.015	0.0093 (J)		
9/6/2016								0.0362 (J)	1.96
9/8/2016									
11/15/2016				0.0085 (J)	0.0123 (J)				
11/16/2016	0.0109 (J)	0.0117 (J)	0.0187 (J)			0.0081 (J)	0.0127 (J)		
11/17/2016								0.0617	
11/18/2016									
11/21/2016									1.68
2/20/2017			0.0066 (J)	0.0093 (J)	0.0157 (J)				
2/21/2017	<0.015	0.0088 (J)				<0.015	0.0071 (J)	0.0245 (J)	
2/22/2017									1.48
6/12/2017		0.0133 (J)	<0.015	<0.015	<0.015				
6/13/2017	<0.015					<0.015		<0.015	
6/14/2017							0.0078 (J)		1.71
9/26/2017	<0.015	0.0093 (J)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
9/27/2017									1.61
2/13/2018	<0.015	0.0141 (J)	<0.015	<0.015	<0.015				
2/14/2018						<0.015	0.0068 (J)	0.0314 (J)	1.47
3/6/2018									
5/1/2018									
6/26/2018	<0.015	0.012 (J)	0.0042 (J)	0.0056 (J)	0.0041 (J)	<0.015	0.008 (J)	0.062	
6/27/2018									
6/28/2018									1.4
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	<0.015	0.0086 (J)	<0.015	0.0062 (J)	<0.015	0.0053 (J)	0.0083 (J)	0.055	1.6
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	<0.015	0.00565 (JD)	<0.015	<0.015	<0.015	<0.015	0.008 (J)	0.068	
3/20/2019									1.7
10/15/2019	<0.015	0.0067 (J)	<0.015	0.006 (J)	0.01 (J)	<0.015	0.006 (J)	0.022 (J)	
10/16/2019									
10/17/2019									1.7
12/3/2019									
12/4/2019									1.6
3/3/2020	<0.015	0.0082 (J)	<0.015	<0.015	<0.015	0.0065 (J)	0.01 (J)		
3/4/2020								0.044 (J)	
3/5/2020									1.5
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.0071 (J)	0.033 (J)	
9/16/2020									1.7
9/17/2020									
3/1/2021		<0.015			<0.015				
3/2/2021	<0.015		0.0053 (J)	0.0071 (J)		<0.015	0.0057 (J)	0.042	
3/3/2021									1.4

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/10/2025 11:06 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
3/4/2021									
9/21/2021			<0.015	<0.015		<0.015	<0.015		
9/22/2021	<0.015	<0.015			<0.015			0.047	
9/23/2021									
9/28/2021									1.7
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.046	
2/2/2022									1.9
2/3/2022									
2/4/2022									
8/23/2022	0.00532 (J)	0.00592 (J)	<0.015	0.00538 (J)	<0.015	<0.015	0.00653 (J)	0.0498	
8/24/2022									2.15
8/25/2022									
1/24/2023	<0.015	<0.015	<0.015	<0.015	<0.015	0.0053 (J)	0.00884 (J)	0.0437	
1/25/2023									
1/26/2023									2.17
8/31/2023	0.00738 (J)	0.00649 (J)	0.0073 (J)	0.00764 (J)	0.00611 (J)			0.039	
9/1/2023									2.05
9/6/2023									
9/8/2023									
2/12/2024	<0.015	<0.015	<0.015	<0.015	<0.015			0.0389	2.36
2/14/2024									
2/16/2024									
8/27/2024	<0.015	<0.015	<0.015	0.00538 (J)	<0.015			0.0315	
8/28/2024									1.82
8/29/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/10/2025 11:06 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-25I	BRGWC-47	BRGWC-45	BRGWC-44	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	1.63	1.35	1.28	1.03				
11/15/2016								
11/16/2016								
11/17/2016				1.7				
11/18/2016	1.91							
11/21/2016		1.74	1.19					
2/20/2017								
2/21/2017	1.39			1.55				
2/22/2017		1.5	1.43					
6/12/2017								
6/13/2017	1.62			1.77				
6/14/2017		1.6	1.57					
9/26/2017								
9/27/2017	1.16	1.83	1.51	1.75				
2/13/2018								
2/14/2018	1.17	1.8	1.6	1.47				
3/6/2018					0.428	0.0198 (J)	2.12	
5/1/2018					0.435 (D)	0.015 (J)	1.5	
6/26/2018				1.8				
6/27/2018	1.4 (J+X)	1.8 (J+X)	1.5 (J+X)		0.49 (J+X)			
6/28/2018						<0.015 (X)		
7/31/2018						0.035 (J)		
8/1/2018					0.39			
8/10/2018								1.3
8/23/2018					0.39	0.022 (J)		1.4
9/19/2018					0.43	0.021 (J)		1.7
10/29/2018					0.4	0.021 (J)		1.3
11/28/2018					0.51	<0.015 (X)		1.5
12/18/2018		1.5		1.5				
12/19/2018			1.6		0.41			
12/20/2018	1.4					0.028 (J)		1.6
1/17/2019								1.5
2/13/2019								1.7
3/19/2019	1.1				0.41			
3/20/2019		1.5	1.4	1.5 (D)		0.043		1.6 (D)
10/15/2019				1.2				
10/16/2019		1.2			0.36			1.3
10/17/2019	0.97		1.5			0.064		
12/3/2019						0.027 (J)		
12/4/2019	0.89		1.6					
3/3/2020								
3/4/2020	0.81	1.1		1.2	0.49			1.4
3/5/2020			1.5			0.044 (J)		
9/15/2020		1.1		1.2				
9/16/2020	1.2		1.4		0.47	0.028 (J)		
9/17/2020								1.9
3/1/2021								
3/2/2021				1.1	0.58	0.044		
3/3/2021	0.91	1						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/10/2025 11:06 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-25I	BRGWC-47	BRGWC-45	BRGWC-44	BRGWC-52I
3/4/2021			1.1					1.4
9/21/2021								
9/22/2021								
9/23/2021					0.47	0.029 (J)		
9/28/2021	0.95	0.9	0.91	1.1			1.3	1.4
2/1/2022								
2/2/2022			1	1.1	0.48	0.034 (J)	1.6	1.5
2/3/2022		0.93						
2/4/2022	1							
8/23/2022				1.38	0.547			
8/24/2022		1.13						
8/25/2022	1.03		1.07			0.0458	1.59	1.56
1/24/2023			1.11					
1/25/2023	1.14					0.0355	1.47	1.79
1/26/2023		1.07		1.45	0.661			
8/31/2023								
9/1/2023			1.13					
9/6/2023	1.25	1.34		1.95	0.689	0.0444		1.87
9/8/2023							1.35	
2/12/2024			1.23		0.618		1.27	
2/14/2024	1.17	1.11		1.61		0.0355		
2/16/2024								1.61
8/27/2024	1.28	1.09					1.16	
8/28/2024			0.996		0.508			1.44
8/29/2024				2.04		0.0431		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	13.5	4.09	19.6	12.6					
9/1/2016					3.3	4.61	8.98		
9/6/2016								12.8	63.3
9/8/2016									
11/15/2016			21.7		3.44				
11/16/2016	14.9	4.25		12.1		4.17	15.4		
11/17/2016								19.2	
11/18/2016									
11/21/2016									60.7
2/20/2017	13.9		21.1		3.52				
2/21/2017		4.02		11.4		5	17.4	15.1	
2/22/2017									62.1
6/12/2017	13.7		21.5	9.34	3.11				
6/13/2017		3.84				4.98		10.2	
6/14/2017							18.1		63.5
9/26/2017	14.4	3.31	24	14.3	3.15	4.49	19.3	15	
9/27/2017									63.5
2/13/2018	<25	3.94	<25	<25	3.65				
2/14/2018						<25	<25	<25	62.8
3/6/2018									
5/1/2018									
6/26/2018	13.5 (J)	3.6	23.5 (J)	16 (J)	3.3	6.4	15.5 (J)	18.5 (J)	
6/27/2018									
6/28/2018									73.3
7/31/2018						6.1	18.2 (J)		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	16.4 (J)	3.8	19.8 (J)	14.5 (J)	3.5	5.5	18.7 (J)	16.8 (J)	102
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	12.3 (J)	3.9	21.4 (J)	14.3 (JD)	3.6	5.9	15.9 (J)	13.5 (J)	
3/20/2019									141
10/15/2019	14.4	3.7	20	15.1	3.5	6.2	15.9	8.6	
10/16/2019									
12/3/2019									
12/4/2019									92.6
3/3/2020	14.9	4	23.2	20	5	6.8	19.4		
3/4/2020								11.5	
3/5/2020									119
9/15/2020	12.7	3.9	16.8	14.1	3.7	5.7	14.5	10.7	
9/16/2020									106
9/17/2020									
3/1/2021				15.4	4.2				
3/2/2021	13.2	4	16.8			5.4	11.7	11.6	
3/3/2021									122
3/4/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
9/21/2021	14.1		19.1			5.4	16.4		
9/22/2021		4.3		15.9	4.1			9.2	
9/23/2021									
9/28/2021									212
2/1/2022	14.5	4.4	19.1	14.4	4.2	5.3	14.2	10.7	
2/2/2022									232
2/3/2022									
2/4/2022									
8/23/2022	14.3	4.65	18.2	13.9	3.97	6.09	15.8	8.09	
8/24/2022									316
8/25/2022									
1/24/2023	15.8	4.86	19.4	14.2	3.9	5.62	13.7	6.97	
1/25/2023									
1/26/2023									361
8/31/2023	14.3	5.02	14.9	12.6	3.79			5.95	
9/1/2023									414
9/6/2023									
9/8/2023									
2/12/2024	16	5.25	18.2	14.1	4.27			6.19	441
2/14/2024									
8/27/2024	15.9	5.45	17.2	12.4	4.19			5.88	
8/28/2024									419
8/29/2024									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-25I	BRGWC-32S	BRGWC-27I	BRGWC-45	BRGWC-47	BRGWC-44	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	93.9	59.4	60.5	87.2				
11/15/2016								
11/16/2016								
11/17/2016		78.4						
11/18/2016				82.4				
11/21/2016	99.1		31.1					
2/20/2017								
2/21/2017		80.9		75.1				
2/22/2017	105		67.3					
6/12/2017								
6/13/2017		62		61				
6/14/2017	91.3		60.2					
9/26/2017								
9/27/2017	84	65.8	68.4	72.6				
2/13/2018								
2/14/2018	72.1	58.8	70.2	74.1				
3/6/2018					39.5	326	<25	
5/1/2018					45.5	302 (D)	<25	
6/26/2018		55.5						
6/27/2018	61.1		67.1	68.2		340		
6/28/2018					41.9			
7/31/2018					41.5			
8/1/2018						358		
8/10/2018								410 (O)
8/23/2018					42.3	323		33.9
9/19/2018					41.9	321		42.3
10/29/2018					40.8	326		39.8
11/28/2018					45.1	354		38.2
12/18/2018	52.9	54.7						
12/19/2018			61.2			330		
12/20/2018				63.9	39			43.2
1/17/2019								39.4
2/13/2019								36.9
3/19/2019				60.2		335		
3/20/2019	55.4	53.95 (D)	52.8		31.2			40.85 (D)
10/15/2019		48.3						
10/16/2019	54					338		48.4
12/3/2019					43.7			
12/4/2019			52.7	76.8				
3/3/2020								
3/4/2020	59.3	52		72.3		353		49.5
3/5/2020			52.1		37.9			
9/15/2020	55.1	40.1						
9/16/2020			43.1	62.5	39.7	309		
9/17/2020								35.4
3/1/2021								
3/2/2021		44.1			33.9	353		
3/3/2021	73.3			58.2				
3/4/2021			35.7					47.5

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-25I	BRGWC-32S	BRGWC-27I	BRGWC-45	BRGWC-47	BRGWC-44	BRGWC-52I
9/21/2021								
9/22/2021								
9/23/2021					32	336		
9/28/2021	59.5	38.4	33.9	50.4			24.2	39.5
2/1/2022								
2/2/2022		44.3	44.2		33.8	320	25.1	40.1
2/3/2022	58.7							
2/4/2022				61.7				
8/23/2022		51.5				323		
8/24/2022	61							
8/25/2022			48.5	64	33.5		27.2	38.3
1/24/2023			46.6					
1/25/2023				55.7	34.3		25.1	36.3
1/26/2023	68	57.6				331		
8/31/2023			45.1					
9/1/2023								
9/6/2023	71.4	69.6		74.4	34	347		37.4
9/8/2023							26.5	
2/12/2024			47.4			340	26	
2/14/2024	89.3	67.4		60	32.8			36.4
8/27/2024	70.5			75.9			24.9	
8/28/2024			37.4			302		36.8
8/29/2024		77.6			42.9			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	2	3.6	2.3	4.4					
9/1/2016					3.3	2.5	3.5		
9/6/2016								6.7	5.8
9/8/2016									
11/15/2016		4				2.3			
11/16/2016	1.8		2	4.4	3.6		3.6		
11/17/2016									4.3
11/18/2016									
11/21/2016								6.5	
2/20/2017		3.9		4.8		2.4			
2/21/2017	1.8		2		3.2		3.2		3.5
2/22/2017								5.6	
6/12/2017		3.8	2.1	4.2		2.2			
6/13/2017	1.7						3.3		3.2
6/14/2017					3.1			5.7	
9/26/2017	1.8	4.1	2	4.4	3.3	2.3	3.3		3.5
9/27/2017								6	
2/13/2018	1.7	4.1	2.1	4.7		2.3			
2/14/2018					3.1		3.5	5.9	3.8
3/6/2018									
5/1/2018									
6/26/2018	2.2	4.1	2.4	4.5	3.4	2.6	3.4		3.8
6/27/2018									
6/28/2018								7 (J-X)	
7/31/2018					2.6		2.9		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	1.9	3.8	1.8	4.5	2.8	2.3	2.9	5.8	3.9
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	2	4.2	2.45 (D)	4.5	3.2	2.6	3.5		3.8
3/20/2019								5.8	
10/15/2019	1.9	3.7	2.2	4.2	3.1	2.4	3.4		3.5
10/16/2019									
12/3/2019									
12/4/2019								5	
3/3/2020	1.9	3.6	1.9	3.9	2.6	2.9	3.2		
3/4/2020									3.3
3/5/2020								4.3	
9/15/2020	1.7	3.7	1.9	3.7	2.4	2.3	3.5		3.1
9/16/2020								4.4	
9/17/2020									
3/1/2021			1.8			2.1			
3/2/2021	1.7	3.7		3.8	2.6		3.7		3.5
3/3/2021								4	
3/4/2021									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
9/21/2021		3.2		3.2	2.1		3.5		
9/22/2021	1.5		1.7			2.1			2.8
9/23/2021									
9/28/2021								3.4	
2/1/2022	1.6	3.4	1.8	3.5	2.2	2.1	3.6		3.2
2/2/2022								4	
2/3/2022									
2/4/2022									
8/23/2022	2.18	3.59	2.02	3.64	2.5	2.39	5.46		3.16
8/24/2022								4.91	
8/25/2022									
1/24/2023	2.16	3.56	2.09	3.93	2.49	2.3	3.79		2.88
1/25/2023									
1/26/2023								3.82	
8/23/2023	2.14	3.37	1.9	3.53		2.34		3.35	2.41
8/24/2023									
8/25/2023									
8/26/2023									
1/31/2024	2.14	3.52	2.35	3.98		3.23			
2/1/2024								3.52	2.4
2/2/2024									
2/9/2024									
8/27/2024	2.17	3.49	2.16	3.88		2.28			2.16
8/28/2024								3.48	
8/29/2024									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-27I	BRGWC-32S	BRGWC-25I	BRGWC-44	BRGWC-47	BRGWC-45	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	6.4	6	6.8	5.5				
11/15/2016								
11/16/2016								
11/17/2016				7.7				
11/18/2016		6.3						
11/21/2016	6.9		7.8					
2/20/2017								
2/21/2017		5.1		7.3				
2/22/2017	6.2		7					
6/12/2017								
6/13/2017		4.7		7.5				
6/14/2017	7.2		7.1					
9/26/2017								
9/27/2017	8.7	4.9	7.2	7.9				
2/13/2018								
2/14/2018	7.2	5.6	7.4	6.7				
3/6/2018					6	8.4	56.6	
5/1/2018					6	5.7 (JXD)	58.5	
6/26/2018				6.7				
6/27/2018	6.3	5.9	7.1			4.4		
6/28/2018							50.2 (J-X)	
7/31/2018							59	
8/1/2018						5.2		
8/10/2018								6.9
8/23/2018						3.6	54	7.5
9/19/2018						4.1	58.4	6.6
10/29/2018						4.3	62.6	7.8
11/28/2018						5.1	58.1	7.2
12/18/2018	5.4			6.2				
12/19/2018			7 (J-X)			4.5 (J-X)		
12/20/2018		5.6 (J-X)					47.2 (J-X)	6.6 (J-X)
1/17/2019								6.4
2/13/2019								6.5
3/19/2019		5.8				4.7		
3/20/2019	5.6		7.3	6.3 (D)			27.7	6.7 (D)
10/15/2019				5				
10/16/2019	6.9					4.6		7
12/3/2019							52.8	
12/4/2019		5.6	6.6					
3/3/2020								
3/4/2020	5.8	5.1		5		4.2		6.1
3/5/2020			6				37.1	
9/15/2020	5.5			4.9				
9/16/2020		5.4	5.6			4.1	54.9	
9/17/2020								6.3
3/1/2021								
3/2/2021				4.5		4.8	25.8	
3/3/2021	5.6	4.5						
3/4/2021			4.6					5.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-27I	BRGWC-32S	BRGWC-25I	BRGWC-44	BRGWC-47	BRGWC-45	BRGWC-52I
9/21/2021								
9/22/2021								
9/23/2021						4.3	29.3	
9/28/2021	5.4	3.7	3.6	4.2	5			5.5
2/1/2022								
2/2/2022			3.8	4.2	5.5	4.2	23.4	6.1
2/3/2022	6.1							
2/4/2022		4.6						
8/23/2022				5.38		4.49		
8/24/2022	5.84							
8/25/2022		4.65	3.96		6.28		14.9	6.27
1/24/2023			4.49					
1/25/2023		3.81			5.84		27.4	6.35
1/26/2023	5.59			6.96		4.96		
8/23/2023			4.3					
8/24/2023					6.83			
8/25/2023	6.08	4.81		8.47		4.67		6.28
8/26/2023							16.5	
1/31/2024			4.1					
2/1/2024	7.94	4.05		8.73	6.36	4.74		
2/2/2024								6.3
2/9/2024							17.2	
8/27/2024	8.87	4.47			5.99			
8/28/2024			4.09			4.57		6.58
8/29/2024				13.7			24.8	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	0.19 (J)	0.07 (J)	0.05 (J)	0.11 (J)					
9/1/2016					0.06 (J)	0.05 (J)	0.2 (J)		
9/6/2016								0.42	0.43
9/8/2016									
11/15/2016	0.13 (J)				0.06 (J)				
11/16/2016		0.07 (J)	0.07 (J)	0.08 (J)		0.03 (J)	0.14 (J)		
11/17/2016								0.15 (J)	
11/18/2016									
11/21/2016									0.24 (J)
2/20/2017	0.08 (J)	0.06 (J)			0.04 (J)				
2/21/2017			0.05 (J)	0.14 (J)		0.04 (J)	0.16 (J)	0.1 (J)	
2/22/2017									0.2 (J)
6/12/2017	0.07 (J)	0.008 (J)		0.16 (J)	0.06 (J)				
6/13/2017			0.04 (J)			0.008 (J)		0.07 (J)	
6/14/2017							0.09 (J)		0.15 (J)
9/26/2017	0.04 (J)	<0.033	<0.033	0.14 (J)	<0.033	<0.033	0.1 (J)	<0.033	
9/27/2017									0.41
2/13/2018	<0.033	<0.033	<0.033	<0.033	<0.033				
2/14/2018						<0.033	<0.033	<0.033	<0.033
3/6/2018									
5/1/2018									
6/26/2018	0.072 (J)	0.045 (J)	0.048 (J)	0.085 (J)	0.041 (J)	0.042 (J)	0.079 (J)	0.053 (J)	
6/27/2018									
6/28/2018									0.93 (J+X)
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	<0.033	<0.033	<0.033	0.085 (J)	<0.033	<0.033	<0.033	<0.033	0.54
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	0.06 (J)	<0.033	0.037 (J)	0.0655 (JD)	0.03 (J)	<0.033	<0.033	<0.033	
3/20/2019									0.31
8/27/2019	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033		0.12 (J)
8/28/2019									
8/29/2019								0.084 (J)	
10/15/2019	0.045 (J)	<0.033	<0.033	<0.033	<0.033	<0.033	0.047 (J)	<0.033	
10/16/2019									
12/3/2019									
12/4/2019									0.26 (J)
3/3/2020	0.057 (J)	<0.033	0.05 (J)	0.066 (J)	0.09 (J)	<0.033	0.056 (J)		
3/4/2020								<0.033	
3/5/2020									0.051 (J)
8/18/2020	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	0.052 (J)	<0.033	
8/19/2020									0.14
8/20/2020									
9/15/2020	0.051 (J)	<0.033	<0.033	<0.033	<0.033	<0.033	0.062 (J)	<0.033	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
9/16/2020									0.13
9/17/2020									
3/1/2021				<0.033	<0.033				
3/2/2021	<0.033	<0.033	<0.033			<0.033	0.061 (J)	<0.033	
3/3/2021									0.13
3/4/2021									
9/21/2021	0.056 (J)	<0.033				<0.033	0.071 (J)		
9/22/2021			<0.033	<0.033	<0.033			0.069 (J)	
9/23/2021									
9/28/2021									0.11
2/1/2022	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	0.055 (J)	<0.033	
2/2/2022									0.1
2/3/2022									
2/4/2022									
8/23/2022	<0.033	<0.033	<0.033	<0.033	<0.033	0.129	0.151	0.157	
8/24/2022									0.318
8/25/2022									
1/24/2023	0.158	0.149	<0.033	<0.033	0.12	0.0926 (J)	0.214	0.231	
1/25/2023									
1/26/2023									0.167
8/23/2023	0.277	0.289	0.229	0.267	0.0787 (J)			0.114	0.116
8/24/2023									
8/25/2023									
1/31/2024	0.233	0.232	0.184	<0.033	0.0341 (J)				
2/1/2024								0.275	0.169
2/2/2024									
8/27/2024	0.0516 (J)	0.0365 (J)	0.0426 (J)	0.0342 (J)	0.0334 (J)			0.204	
8/28/2024									0.336 (J)
8/29/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-25I	BRGWC-45	BRGWC-47	BRGWC-44	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	0.2 (J)	0.15 (J)	0.31	0.14 (J)				
11/15/2016								
11/16/2016								
11/17/2016				0.27 (J)				
11/18/2016			0.19 (J)					
11/21/2016	0.37	0.04 (J)						
2/20/2017								
2/21/2017			0.35	0.6				
2/22/2017	0.37	0.08 (J)						
6/12/2017								
6/13/2017			0.19 (J)	0.19 (J)				
6/14/2017	0.38	0.09 (J)						
9/26/2017								
9/27/2017	0.4	<0.033	0.4	0.5				
2/13/2018								
2/14/2018	<0.033	<0.033	<0.033	<0.033				
3/6/2018					0.94	1.1	<0.033	
5/1/2018					<0.033	0.595 (D)	<0.033	
6/26/2018				0.15 (J)				
6/27/2018	0.085 (J)	<0.033	0.26 (J)			0.27 (J)		
6/28/2018					0.69 (J+X)			
7/31/2018					<0.033			
8/1/2018						0.48		
8/10/2018								1.6 (O)
8/23/2018					<0.033	0.34		0.32
9/19/2018					<0.033	0.23 (J)		0.22 (J)
10/29/2018					<0.033	<0.033		0.14 (J)
11/28/2018					<0.033	0.063 (J)		0.24 (J)
12/18/2018	0.26 (J)			0.29 (J)				
12/19/2018		0.23 (J)				0.28 (J)		
12/20/2018			0.26 (J)		0.12 (J)			0.3
1/17/2019								0.23 (J)
2/13/2019								<0.033
3/19/2019			0.2 (J)			<0.033		
3/20/2019	0.091 (J)	<0.033		0.17 (JD)	0.066 (J)			0.135 (JD)
8/27/2019		<0.033		0.15 (J)				
8/28/2019	0.055 (J)		0.074 (J)		<0.033	<0.033		
8/29/2019								0.087 (J)
10/15/2019				0.16 (J)				
10/16/2019	0.11 (J)					0.076 (J)		0.22 (J)
12/3/2019					0.19 (J)			
12/4/2019		0.11 (J)	0.18 (J)					
3/3/2020								
3/4/2020	<0.033		<0.033	0.07 (J)		<0.033		0.1 (J)
3/5/2020		<0.033			<0.033			
8/18/2020								
8/19/2020	0.12	<0.033	0.19	0.17				
8/20/2020					<0.033	<0.033		0.23
9/15/2020	0.057 (J)			0.15				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-25I	BRGWC-45	BRGWC-47	BRGWC-44	BRGWC-52I
9/16/2020		<0.033	0.15		0.052 (J)	<0.033		
9/17/2020								0.074 (J)
3/1/2021								
3/2/2021				0.15	0.067 (J)	<0.033		
3/3/2021	0.13		0.24					
3/4/2021		<0.033						0.28
9/21/2021								
9/22/2021								
9/23/2021					0.06 (J)	<0.033		
9/28/2021	0.081 (J)	<0.033	0.16	0.15			0.08 (J)	0.12
2/1/2022								
2/2/2022		<0.033		0.15	<0.033	<0.033	0.065 (J)	0.098 (J)
2/3/2022	0.11							
2/4/2022			0.14					
8/23/2022				0.186		<0.033		
8/24/2022	0.103							
8/25/2022		0.138	0.234		0.166		0.184	0.157
1/24/2023		0.082 (J)						
1/25/2023			0.152		0.163		0.13	0.169
1/26/2023	0.0935 (J)			0.202		0.117		
8/23/2023		0.0477 (J)						
8/24/2023							0.195	
8/25/2023	0.0849 (J)		0.302	0.25	0.185	0.243		0.188 (J)
1/31/2024		0.207						
2/1/2024	0.0968 (J)		0.222	0.221		0.11	0.242	
2/2/2024					0.126			0.215
8/27/2024	0.0849 (J)		0.382				0.193	
8/28/2024		0.0511 (J)				<0.033		0.0748 (J)
8/29/2024				0.248	0.078 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	6.59	7.16	6.2	6.53					
9/1/2016					6.49	6.71	6		
9/6/2016								6.23	6.49
9/8/2016									
11/15/2016	6.67				6.59				
11/16/2016		6.96	6.12	6.4		6.15	6		
11/17/2016									5.79
11/18/2016									
11/21/2016								6.23	
2/20/2017	6.65			6.44	6.61				
2/21/2017		7.15	6.24			6.52	6.09		6.15
2/22/2017								6.16	
6/12/2017	6.64	7.31		6.4					
6/13/2017			6.19			6.42	6.03		5.87
6/14/2017						6.51		6.16	
9/26/2017	6.58	7.02	6.15	6.31	6.47	6.42	5.85		5.82
9/27/2017								6.16	
2/13/2018	6.72	7.44	6.18	6.62	6.54				
2/14/2018						6.48	5.99	6.24	5.83
3/15/2018									
5/1/2018									
6/26/2018	6.43	6.93	6.05	6.29	6.23	6.2	5.86		5.73
6/27/2018									
6/28/2018								6.21	
7/31/2018						6.37	5.99		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	6.7	6.76	5.92	6.57	6.71	6.5	6.08	6.18	5.78
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	6.63	6.87	6.18	6.45	6.18	6.28	5.71		5.28
3/20/2019								6.24	
8/27/2019	6.49	6.79	6.09	6.37	6.35	6.35	6	6.17	
8/28/2019									
8/29/2019									5.64
10/15/2019	7.01	6.57	6.06	6.77	6.36	6.8	6.61		5.7
10/16/2019									
10/17/2019								6.43	
3/3/2020	6.49	6.71	6.1	6.29	6.59	6.33	5.94		
3/4/2020									5.7
3/5/2020								5.99	
5/12/2020									
8/18/2020	6.41	6.59	6.06	6.29	6.33	6.25	5.75		5.56
8/19/2020								6.36	
8/20/2020									
9/15/2020	6.25	6.64	6.01	6.27	6.43	6.01	6		5.72

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
9/16/2020								6.29	
9/17/2020									
3/1/2021		6.66			6.7				
3/2/2021	6.42		6.2	6.47		6.11	5.92		5.75
3/3/2021								6.29	
3/4/2021									
9/21/2021	6.36			6.32		6.53	5.87		
9/22/2021		6.78	6.06		6.48				5.72
9/23/2021									
9/28/2021								6.33	
2/1/2022	6.39	6.83	5.95	6.38	6.54	6.4	5.81		5.65
2/2/2022								6.34	
2/3/2022									
2/4/2022									
8/23/2022	6.36	6.67	5.95	6.24	6.51	6.39	5.9		5.66
8/24/2022								6.38	
8/25/2022									
1/24/2023	6.47	6.7	5.26	6.42	6.54	6.48	5.97		5.76
1/25/2023									
1/26/2023								6.28	
8/22/2023	6.09	6.91	5.97	6.36	6.27			6.44	5.89
8/24/2023									
1/30/2024	6.38	6.57	6.05	6.44	5.75			6.39	5.87
1/31/2024									
2/1/2024									
8/27/2024	6.65	6.6	6.02	6.56	6.8				5.92
8/28/2024								6.49	
8/29/2024									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-25I	BRGWC-45	BRGWC-47	BRGWC-52I
8/31/2016							
9/1/2016							
9/6/2016							
9/8/2016	5.51	4.62	5.89	6.07			
11/15/2016							
11/16/2016				5.96			
11/17/2016							
11/18/2016	5.53						
11/21/2016		4.44	5.56				
2/20/2017							
2/21/2017	5.63			5.98			
2/22/2017		4.42	5.87				
6/12/2017							
6/13/2017	5.57			5.96			
6/14/2017		4.45	5.83				
9/26/2017							
9/27/2017	5.53	4.33	5.87	5.85			
2/13/2018							
2/14/2018	5.83	4.42	6.01	5.94			
3/15/2018					5.26		
5/1/2018					6.14	5.85	
6/26/2018				5.87			
6/27/2018	5.53	4.37	5.83			5.87	
6/28/2018					5.88		
7/31/2018					6.07		
8/1/2018						5.79	
8/10/2018							6.28
8/23/2018							6.75
9/19/2018					5.9	5.71	6.48
10/29/2018					5.93	5.76	6.77
11/28/2018					5.99	5.74	6.44
12/18/2018		4.38		5.84			
12/19/2018			5.79			5.8	
12/20/2018	5.78				6.04		6.75
1/17/2019							6.41
2/13/2019							6.42
3/19/2019	5.75					5.89	
3/20/2019		4.4	5.88	6.03	6.1		6.59
8/27/2019			5.85	6.01			
8/28/2019	5.51	4.39			5.86	5.74	
8/29/2019							6.27
10/15/2019				6			
10/16/2019		4.79				5.9	7
10/17/2019	6.01 (D)		6.09		5.93		
3/3/2020							
3/4/2020	5.8	4.5		6.02		5.76	6.54
3/5/2020			5.74		5.95		
5/12/2020			5.88				
8/18/2020							
8/19/2020	5.81	4.67	5.97	6.32			
8/20/2020					5.86	5.75	6.85
9/15/2020		4.53		6			

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-25I	BRGWC-45	BRGWC-47	BRGWC-52I
9/16/2020	5.81		5.79		5.27	5.76	
9/17/2020							6.12
3/1/2021							
3/2/2021				6.1	6.17	5.59	
3/3/2021	5.9	4.46					
3/4/2021			5.98				5.87
9/21/2021							
9/22/2021							
9/23/2021					5.95	5.74	
9/28/2021	5.82	4.23	5.82	5.97			6.81
2/1/2022							
2/2/2022			5.99	6.23	5.92	5.75	6.35
2/3/2022		4.23					
2/4/2022	5.97						
8/23/2022				6.11		5.61	
8/24/2022		4.39					
8/25/2022	6.03		6.06		5.74		6.21
1/24/2023			6.05				
1/25/2023	5.63				5.82		6.25
1/26/2023		4.3		6.18		5.65	
8/22/2023			5.98				
8/24/2023	6.01	4.48		6.14	5.71	5.69	6.24
1/30/2024			5.98			5.73	
1/31/2024	5.83	4.37		6.31			
2/1/2024					5.85		6.3
8/27/2024	5.95	4.47					
8/28/2024			6.05			5.57	6.49
8/29/2024				6.52	6.26		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	0.38 (J)	0.81 (J)	7.5	2.7					
9/1/2016					2.7	0.6 (J)	1.7		
9/6/2016								310	38
9/8/2016									
11/15/2016		<1 (J)				0.68 (J)			
11/16/2016	<1 (J)		6.6	3.4	3.6		1.2		
11/17/2016									84
11/18/2016									
11/21/2016								300	
2/20/2017		1 (B-01)		3.9 (B-01)		0.98 (J)			
2/21/2017	1.5		6.1		3		1.1		39
2/22/2017								280	
6/12/2017		0.94 (J)	5	3.7		0.54 (J)			
6/13/2017	0.67 (J)						1.1		35
6/14/2017					2.6			290	
9/26/2017	0.62 (J)	0.92 (J)	5.4	4.1	2.5	0.53 (J)	1.3		89
9/27/2017								260	
2/13/2018	<1	<1	4.7 (J)	6.6		<1			
2/14/2018					2.1 (J)		<1	250	82.2
3/6/2018									
5/1/2018									
6/26/2018	0.69 (J)	0.91 (J)	6.2	3.5	2	0.54 (J)	0.84 (J)		84.2
6/27/2018									
6/28/2018								276	
7/31/2018					1.9		0.63 (J)		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.72 (J)	0.68 (J)	5.9	4.3	2.1	0.39 (J)	0.66 (J)	440	83.4
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	0.78 (J)	0.74 (J)	6 (D)	3	2.2	0.68 (J)	0.75 (J)		65
3/20/2019								623	
10/15/2019	0.47 (J)	0.68 (J)	5.2	3.8	1.9	0.48 (J)	0.61 (J)		30
10/16/2019									
12/3/2019									
12/4/2019								327	
3/3/2020	0.93 (J)	0.71 (J)	7.1	2.8	1.8	2.5	0.51 (J)		
3/4/2020									38.6
3/5/2020								369	
9/15/2020	<1	<1	5.9	1.7	1.7	<1	<1		41.5
9/16/2020								334	
9/17/2020									
3/1/2021			4.7			0.74 (J)			
3/2/2021	<1	<1		2.2	1.7		0.51 (J)		54
3/3/2021								371	
3/4/2021									

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
9/21/2021		<1		2.3	1.7		0.51 (J)		
9/22/2021	<1		5.2			<1			34.6
9/23/2021									
9/28/2021								612	
2/1/2022	<1	<1	5.4	2	1.4	<1	<1		36.8
2/2/2022								580	
2/3/2022									
2/4/2022									
8/23/2022	0.452	0.521	5.66	2.21	1.84	0.479	0.636		24.4
8/24/2022								935	
8/25/2022									
1/24/2023	0.465	0.66	3.58	3.34	1.8	0.484	0.628		19.7
1/25/2023									
1/26/2023								1030	
8/23/2023	0.526	0.54	6.85	1.83		0.467			11.3
8/24/2023								1250	
8/25/2023									
8/26/2023									
1/31/2024	0.423	0.617	2.65	2.74		0.456			
2/1/2024								1210	10.4
2/2/2024									
2/3/2024									
2/9/2024									
8/27/2024	0.444	0.652	2.58	2.67		0.465			9.73
8/28/2024								1260	
8/29/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-27I	BRGWC-32S	BRGWC-25I	BRGWC-44	BRGWC-47	BRGWC-45	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	460	300	370	280				
11/15/2016								
11/16/2016								
11/17/2016				200				
11/18/2016		320						
11/21/2016	500		420					
2/20/2017								
2/21/2017		270		360				
2/22/2017	570		380					
6/12/2017								
6/13/2017		230		290				
6/14/2017	440		400					
9/26/2017								
9/27/2017	380	260	400	310				
2/13/2018								
2/14/2018	280	232	383	260				
3/6/2018					51.8	1560	111	
5/1/2018					51	1465 (D)	112	
6/26/2018				231				
6/27/2018	281	205	372			1450		
6/28/2018							109	
7/31/2018							107	
8/1/2018						1560		
8/10/2018								183
8/23/2018						1470	108	145
9/19/2018						1500	117	178
10/29/2018						1720	127	157
11/28/2018						1730	133	189
12/18/2018	293			231				
12/19/2018			370			1520		
12/20/2018		200					113	150
1/17/2019								157
2/13/2019								169
3/19/2019		199				1100		
3/20/2019	278		409	235 (D)			127	186.5 (D)
10/15/2019				174				
10/16/2019	266					1560		155
12/3/2019							105	
12/4/2019		241	293					
3/3/2020								
3/4/2020	238	205		165		1380		129
3/5/2020			269				106	
9/15/2020	241			126				
9/16/2020		190	255			1360	103	
9/17/2020								165
3/1/2021								
3/2/2021				139		1360	98.3	
3/3/2021	341	172						
3/4/2021			185					114

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-27I	BRGWC-32S	BRGWC-25I	BRGWC-44	BRGWC-47	BRGWC-45	BRGWC-52I
9/21/2021								
9/22/2021								
9/23/2021						1240	97.5	
9/28/2021	250	137	189	112	47.2			132
2/1/2022								
2/2/2022			210	117	45.3	1170	90.1	126
2/3/2022	274							
2/4/2022		172						
8/23/2022				158		1410		
8/24/2022	298							
8/25/2022		176	254		47		114	142
1/24/2023			247					
1/25/2023		150			41		102	145
1/26/2023	293			182		1310		
8/23/2023								
8/24/2023			256					
8/25/2023				174	49.5	1300		150
8/26/2023	288	94.5					114	
1/31/2024								
2/1/2024			246		42.4	1360		
2/2/2024	328			169				145
2/3/2024		155						
2/9/2024							110	
8/27/2024	261	174			41.8			
8/28/2024			201			1310		150
8/29/2024				216			150	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)	BRGWC-25I
8/31/2016	138	88	154	151					
9/1/2016					142	69			
9/6/2016							505	146	
9/8/2016									460
11/15/2016			123						
11/16/2016	77	41		69	100	100			
11/17/2016								211	611
11/18/2016									
11/21/2016							515		
2/20/2017	170		158						
2/21/2017		<10		68	71	37		151	497
2/22/2017							504		
6/12/2017	132		142	161					
6/13/2017		53				84		130	474
6/14/2017					140		536		
9/26/2017	108	45	138	167	149	68		160	
9/27/2017							432		457
2/13/2018	141	63	150	165					
2/14/2018					137	138	448	194	431
3/6/2018									
5/1/2018									
6/26/2018	133	71	154	188	142	90		221	414
6/27/2018									
6/28/2018							494		
7/31/2018					133	83			
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	138 (X)	78 (X)	147	145 (X)	135	85	715	208	401
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	130	68	146	146.5 (D)	132 (JX)	82 (JX)		161 (JX)	
3/20/2019							885		410.5 (D)
10/15/2019	175	66	144	140	134	89		124	380
10/16/2019									
12/3/2019									
12/4/2019							612		
3/3/2020	<10	41	130	155	115	72			
3/4/2020								118	330
3/5/2020							681		
9/15/2020	100	69	116	116	95	60		109	272
9/16/2020							634		
9/17/2020									
3/1/2021				98					
3/2/2021	80	43	96		93	43		105	280
3/3/2021							690		
3/4/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)	BRGWC-25I
9/21/2021	108		104		117	56			
9/22/2021		66		129				128	
9/23/2021									
9/28/2021							1050		270
2/1/2022	129	72	124	126	114	63		130	
2/2/2022							1110		283
2/3/2022									
2/4/2022									
8/23/2022	107	45	101	117	104	55		103	315
8/24/2022							1540		
8/25/2022									
1/24/2023	124	63	104	93	114	59		102	
1/25/2023									
1/26/2023							1680		339
8/25/2023		36	73				1920	70	
8/28/2023	80			81					
8/30/2023									354
2/6/2024	118	54	113	98			1970	85	
2/7/2024									391
2/8/2024									
8/27/2024	107	51	101	82				86	
8/28/2024							2030		
8/29/2024									492

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWA-6S (bg)	BRGWC-47	BRGWC-44	BRGWC-45	BRGWC-52I
8/31/2016								
9/1/2016				299 (o)				
9/6/2016								
9/8/2016	478	654	607					
11/15/2016				41				
11/16/2016								
11/17/2016								
11/18/2016	503							
11/21/2016		819	695					
2/20/2017				133				
2/21/2017	380							
2/22/2017		721	635					
6/12/2017				61				
6/13/2017	354							
6/14/2017		661	635					
9/26/2017				29				
9/27/2017	376	518	601					
2/13/2018				61				
2/14/2018	503 (JX)	487	628					
3/6/2018					2200	191	346	
5/1/2018					2080 (D)	189	374	
6/26/2018				71				
6/27/2018	458 (X)	648 (X)	2280		31 (OX)			
6/28/2018							333	
7/31/2018							393	
8/1/2018					2190			
8/10/2018								344
8/23/2018					2160		350	333
9/19/2018					2160		353	364
10/29/2018					2130		329	334
11/28/2018					2320		358	357
12/18/2018		407		70 (X)				
12/19/2018			605		2060			
12/20/2018	344						322	355
1/17/2019								347
2/13/2019								350
3/19/2019	334 (JX)			72	2050 (JX)			
3/20/2019		391	564				302	360 (D)
10/15/2019				63				
10/16/2019		2030			2220			346
12/3/2019							362	
12/4/2019	422		526					
3/3/2020				54				
3/4/2020	326	391			2140			351
3/5/2020			489				297	
9/15/2020		281		79				
9/16/2020	301		428		2090		275	
9/17/2020								329
3/1/2021				39				
3/2/2021					1680		264	
3/3/2021	288	515						
3/4/2021			350					383

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/10/2025 11:07 AM View: Pond BCD - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWA-6S (bg)	BRGWC-47	BRGWC-44	BRGWC-45	BRGWC-52I
9/21/2021								
9/22/2021				62				
9/23/2021					1770		277	
9/28/2021	262	457	375			181		336
2/1/2022				61				
2/2/2022			443		1850	181	276	160
2/3/2022		419						
2/4/2022	301							
8/23/2022				52	2060			
8/24/2022		383						
8/25/2022	311		437			167	248	296
1/24/2023			425	64				
1/25/2023	260					156	251	276
1/26/2023		419			2010			
8/25/2023			412					
8/28/2023				30				
8/30/2023	309	418			1970	184	242	281
2/6/2024			418	45	2160	179		
2/7/2024	299	535						
2/8/2024							255	303
8/27/2024	346	424		57		180		
8/28/2024			374		1780			310
8/29/2024							353	

FIGURE E.

Appendix III - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:12 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	BRGWC-29I	-0.08779	-95	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03101	100	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.303	-127	-81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.1911	100	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1244	107	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	45.33	165	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-32S	-3.16	-84	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.23	-130	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1245	-93	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.06359	-100	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.079	-132	-87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.1515	-83	-81	Yes	20	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.06454	-116	-92	Yes	22	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03038	-116	-92	Yes	22	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.0462	-104	-92	Yes	22	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-47	-0.02599	-99	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-9.079	-112	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-18.92	-90	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-19.62	-140	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	116.8	128	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-27.39	-116	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-39.5	-91	-87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-11.78	-117	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-7.447	-115	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-25.85	-88	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-20.5	-110	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	188.3	144	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-36.68	-135	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-19.95	-119	-87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-47	-40.59	-82	-81	Yes	20	0	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:12 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.0005097	9	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	BRGWA-2I (bg)	0.0002903	43	81	No	20	35	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-10	-81	No	20	85	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-9	-81	No	20	75	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-81	No	20	55	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-5	-81	No	20	75	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	0	-5	-81	No	20	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.05377	-58	-87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**BRGWC-29I**	**-0.08779**	**-95**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-30I	0.05462	72	87	No	21	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-32S	-0.05585	-79	-87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**BRGWC-47**	**0.03101**	**100**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-52I	0.03284	48	81	No	20	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-44	-0.1363	-24	-25	No	9	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-23S (bg)**	**-1.303**	**-127**	**-81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.1344	17	81	No	20	5	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1911**	**100**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.1912	52	81	No	20	5	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5187	-75	-81	No	20	5	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1244**	**107**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-25I	-2.049	-44	-81	No	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-27I	-2.088	-66	-81	No	20	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-29I	-2.357	-38	-81	No	20	0	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-30I**	**45.33**	**165**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-32S**	**-3.16**	**-84**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-45	-1.597	-83	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-47	0	3	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.5141	-29	-74	No	19	0	n/a	0.01	NP
Calcium (mg/L)	BRGWC-44	0.02606	8	25	No	9	22.22	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-12I (bg)**	**-0.1919**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-23S (bg)**	**-0.23**	**-130**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.01185	-18	-81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0.02985	28	81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1245**	**-93**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06359**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	0	-14	-81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-25I	-0.1552	-17	-81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.05551	-22	-81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-45**	**-7.079**	**-132**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-52I**	**-0.1515**	**-83**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-44	0.0637	9	25	No	9	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12I (bg)	-0.02367	-36	-87	No	21	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12S (bg)	-0.01755	-49	-81	No	20	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-23S (bg)	-0.01775	-30	-92	No	22	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.06454**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03038**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.008211	-26	-92	No	22	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.0462**	**-104**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.005567	-8	-87	No	21	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-29I	-0.008383	-25	-92	No	22	0	n/a	0.01	NP

Appendix III - Trend Tests - All Results

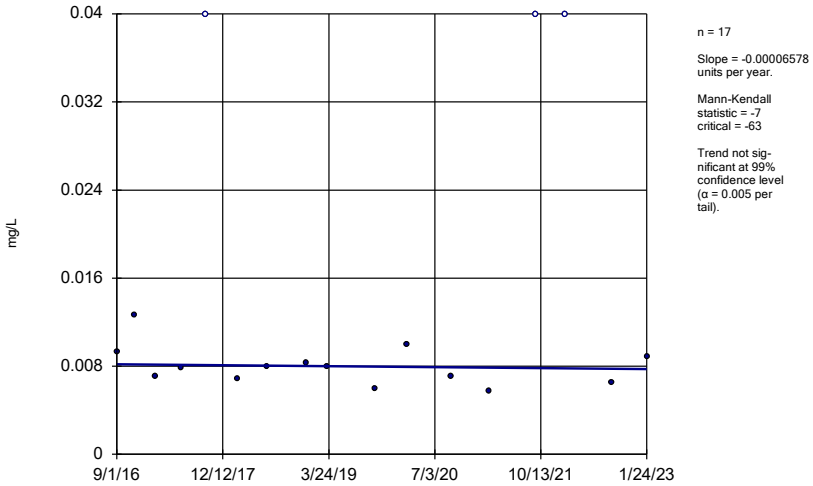
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/10/2025, 11:12 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
pH, Field (S.U.)	**BRGWC-47**	**-0.02599**	**-99**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12I (bg)**	**-0.2108**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12S (bg)**	**-0.126**	**-88**	**-68**	**Yes**	**18**	**16.67**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-23S (bg)**	**-9.079**	**-112**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.308	-72	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	-0.02433	-35	-81	No	20	30	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2157	-74	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03749	-68	-81	No	20	30	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01207	-42	-81	No	20	20	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-25I**	**-18.92**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-27I**	**-19.62**	**-140**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-29I	-18.2	-69	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-30I**	**116.8**	**128**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-32S**	**-27.39**	**-116**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-45	-1.369	-26	-87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-47**	**-39.5**	**-91**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-52I	-4.768	-63	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-23S (bg)**	**-11.78**	**-117**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-9.102	-75	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.8471	-12	-81	No	20	5	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.51	-54	-81	No	20	5	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-115**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.988	-30	-74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**-25.85**	**-88**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**-20.5**	**-110**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-29I	-37.85	-72	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**188.3**	**144**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**-36.68**	**-135**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**-19.95**	**-119**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**-40.59**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-52I	-9.317	-70	-81	No	20	0	n/a	0.01	NP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 17

Slope = -0.00006578 units per year.

Mann-Kendall statistic = -7
critical = -63

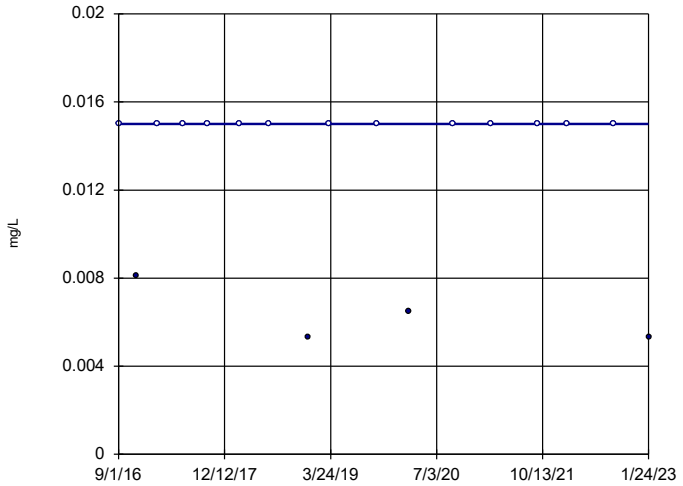
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -63

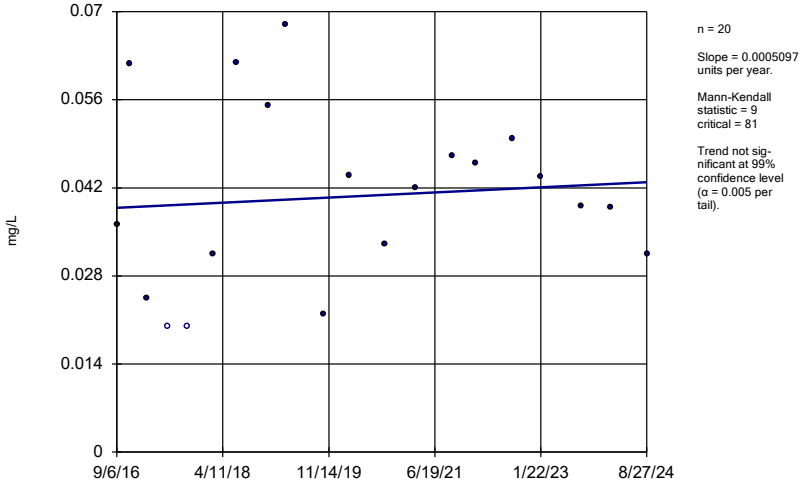
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = 0.0005097 units per year.

Mann-Kendall statistic = 9
critical = 81

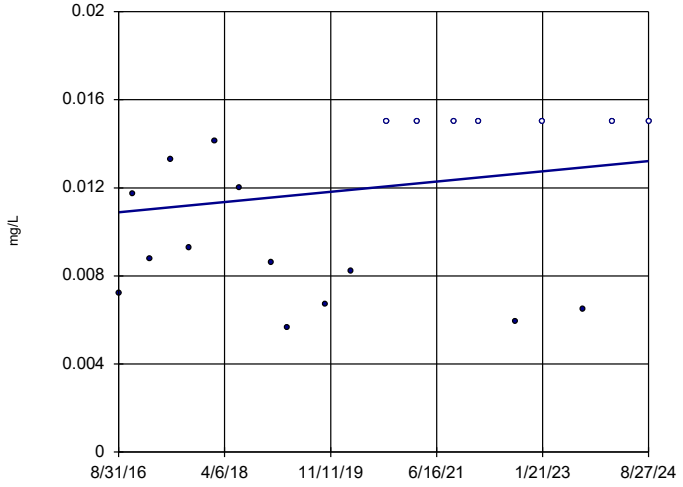
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0.0002903 units per year.

Mann-Kendall statistic = 43
critical = 81

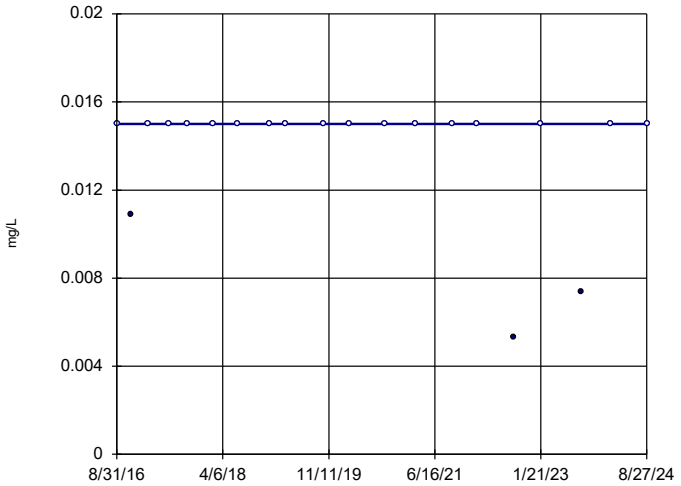
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -10
critical = -81

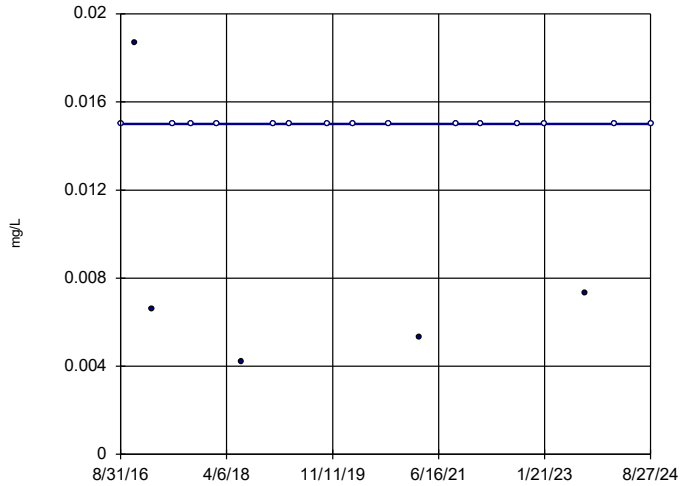
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -9
critical = -81

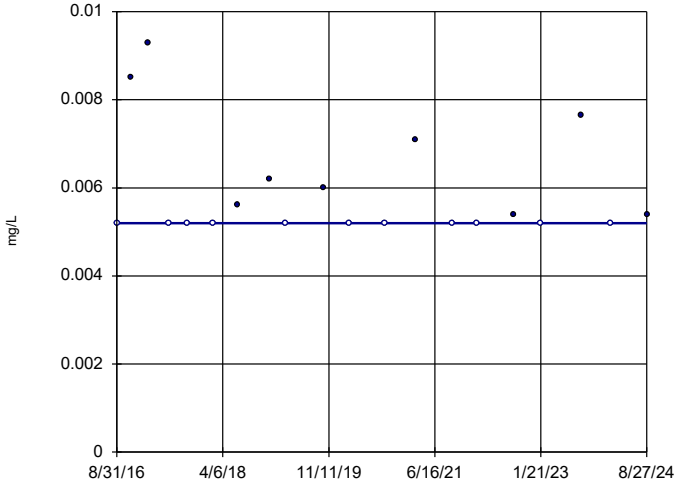
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -81

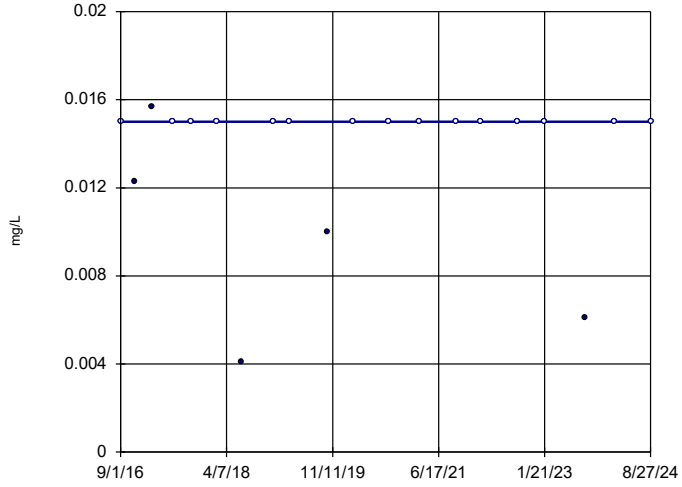
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -81

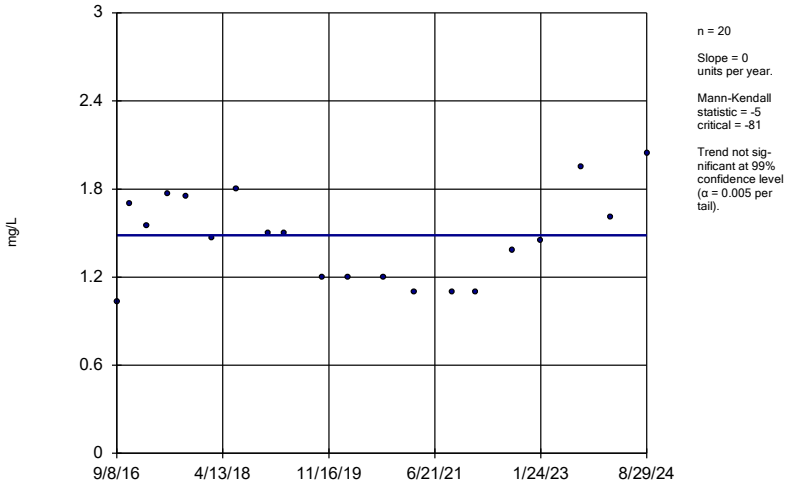
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-25I



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -5 critical = -81

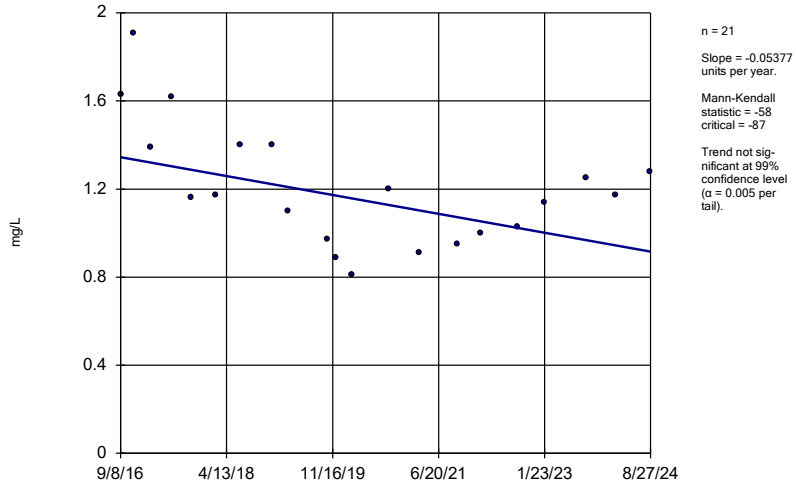
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-27I



n = 21

Slope = -0.05377 units per year.

Mann-Kendall statistic = -58 critical = -87

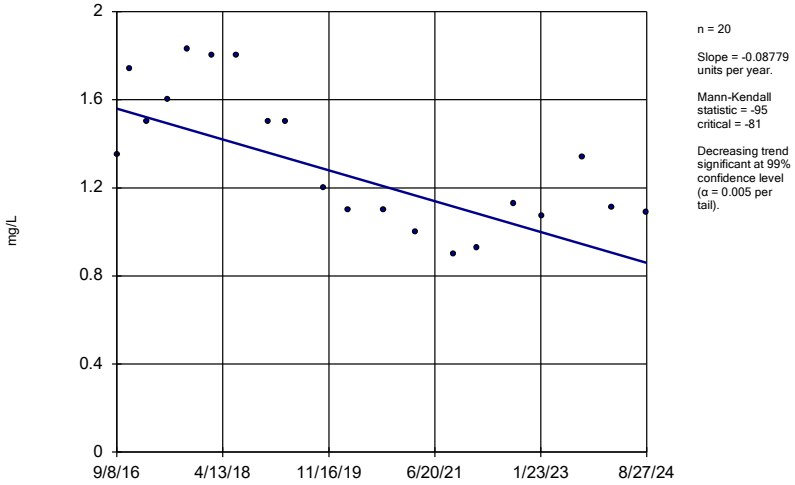
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-29I



n = 20

Slope = -0.08779 units per year.

Mann-Kendall statistic = -95 critical = -81

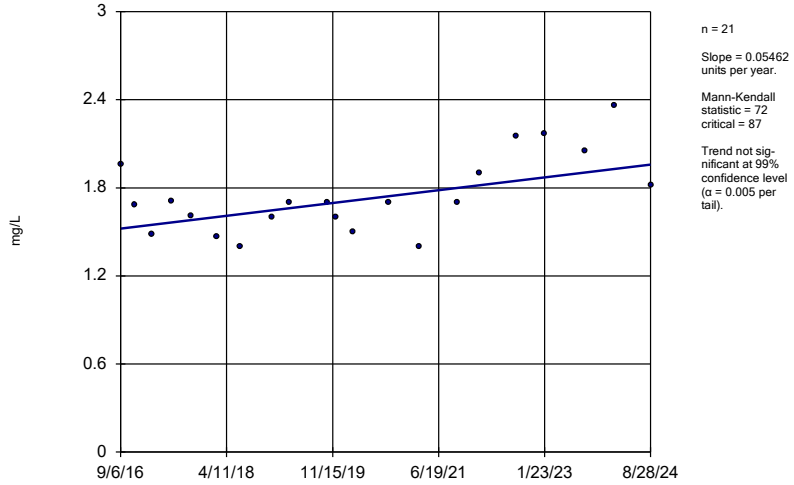
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-30I



n = 21

Slope = 0.05462 units per year.

Mann-Kendall statistic = 72 critical = 87

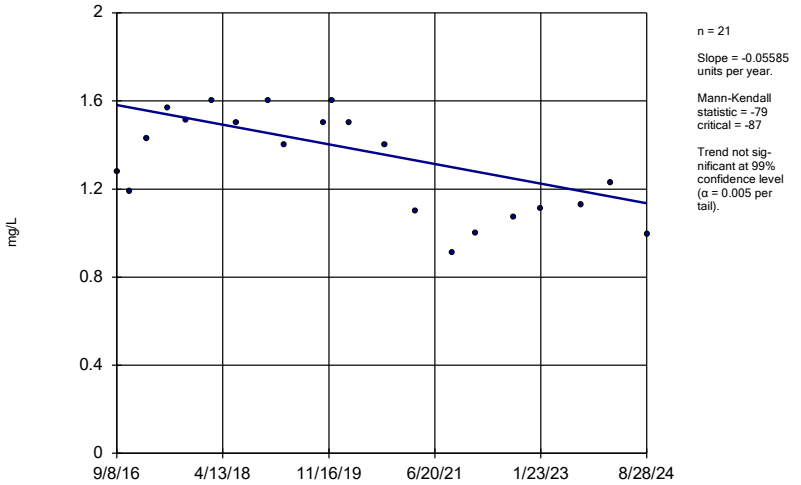
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-32S



n = 21

Slope = -0.05585 units per year.

Mann-Kendall statistic = -79
critical = -87

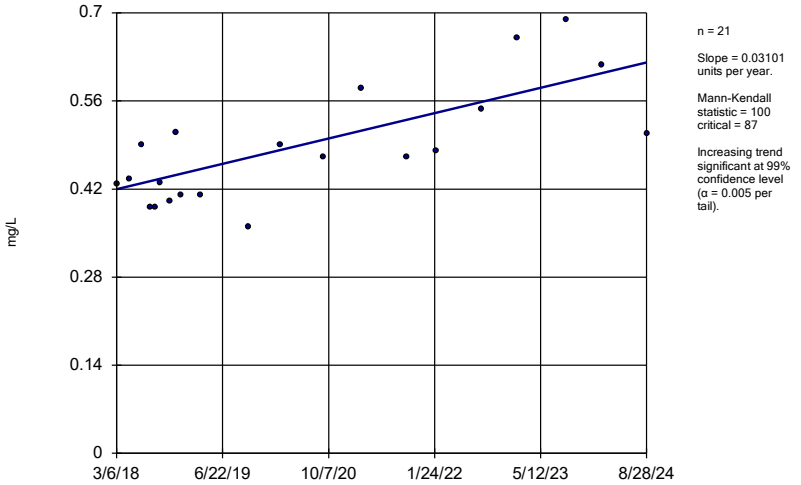
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-47



n = 21

Slope = 0.03101 units per year.

Mann-Kendall statistic = 100
critical = 87

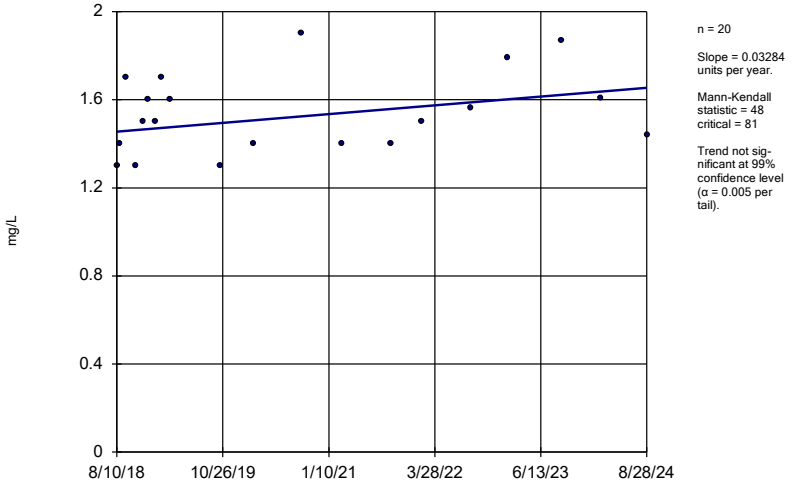
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-52I



n = 20

Slope = 0.03284 units per year.

Mann-Kendall statistic = 48
critical = 81

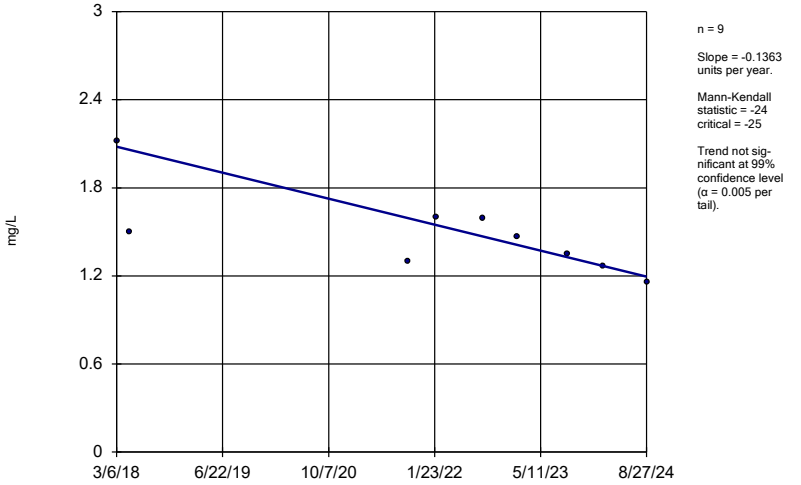
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-44



n = 9

Slope = -0.1363 units per year.

Mann-Kendall statistic = -24
critical = -25

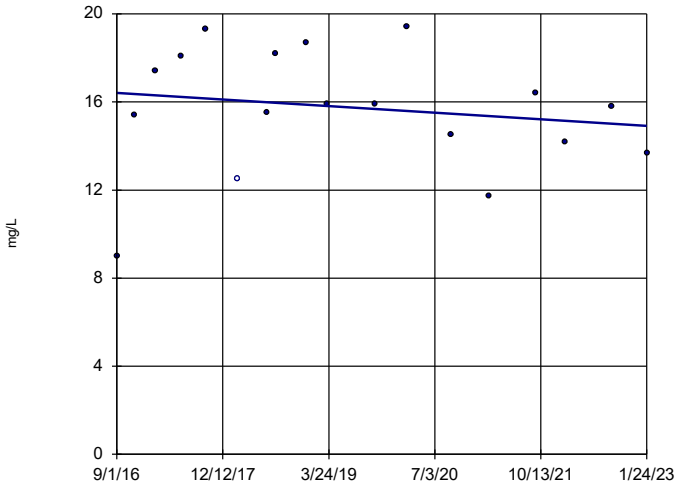
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.2348 units per year.

Mann-Kendall statistic = -12
critical = -68

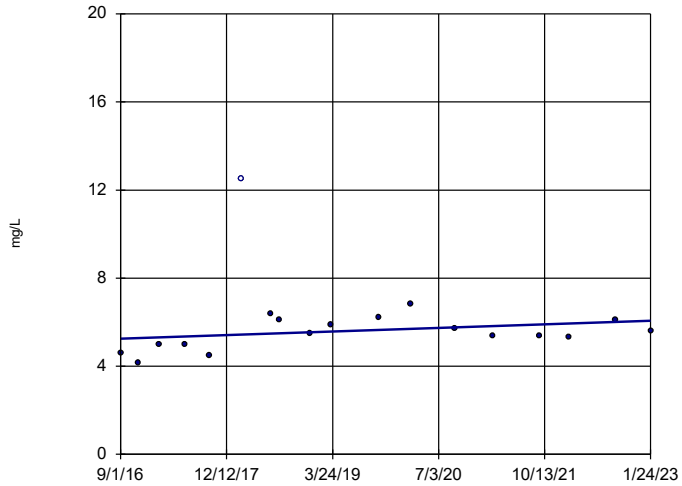
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0.1273 units per year.

Mann-Kendall statistic = 28
critical = 68

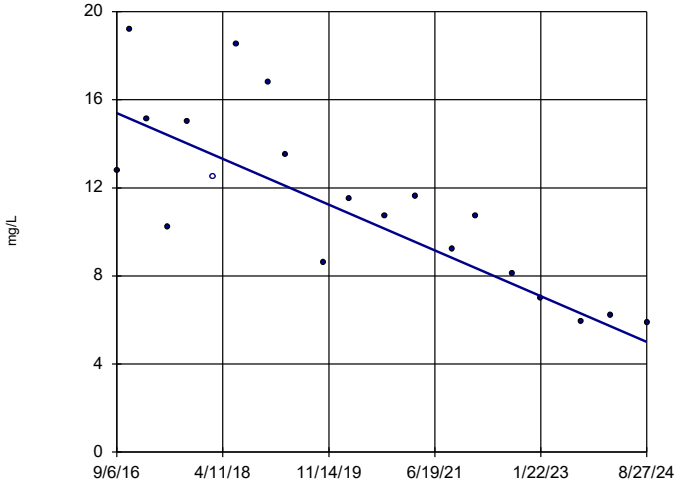
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = -1.303 units per year.

Mann-Kendall statistic = -127
critical = -81

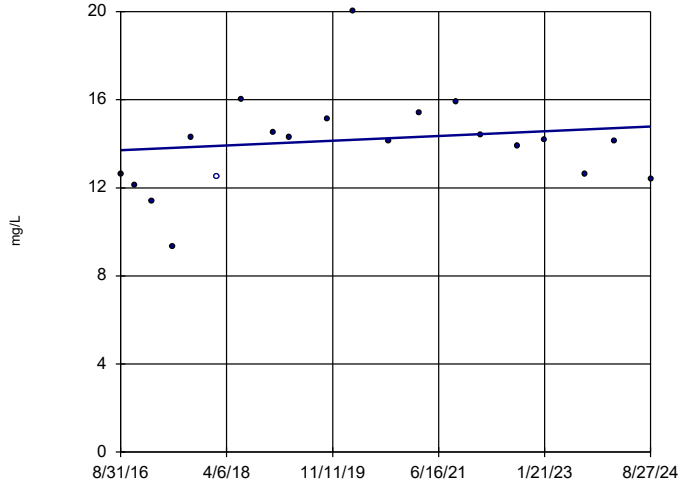
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0.1344 units per year.

Mann-Kendall statistic = 17
critical = 81

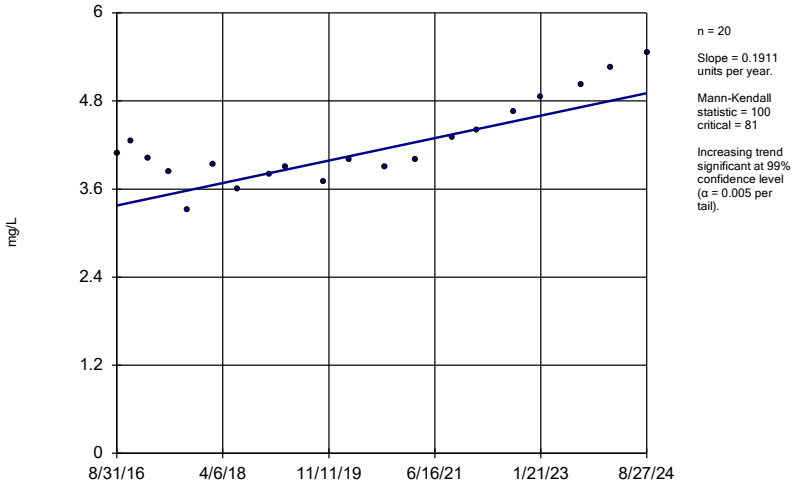
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0.1911 units per year.

Mann-Kendall statistic = 100 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

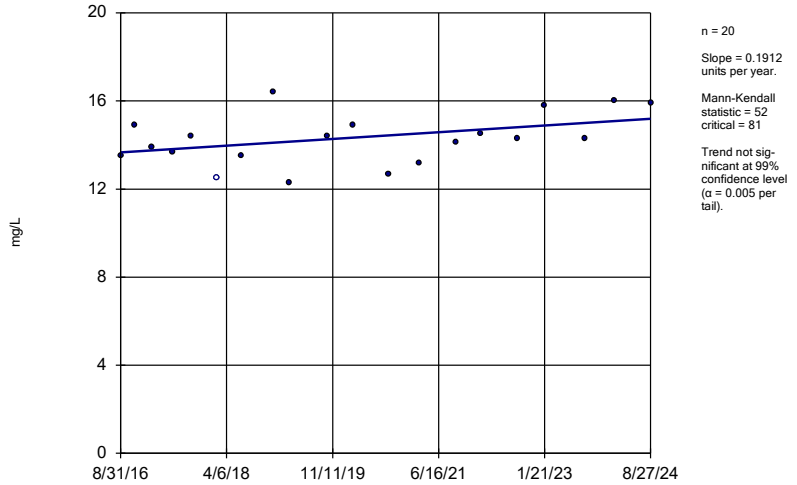
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = 0.1912 units per year.

Mann-Kendall statistic = 52 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

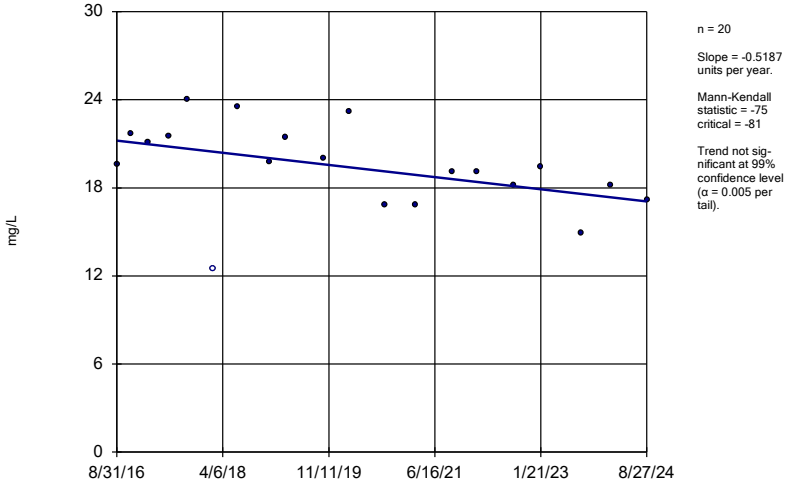
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -0.5187 units per year.

Mann-Kendall statistic = -75 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

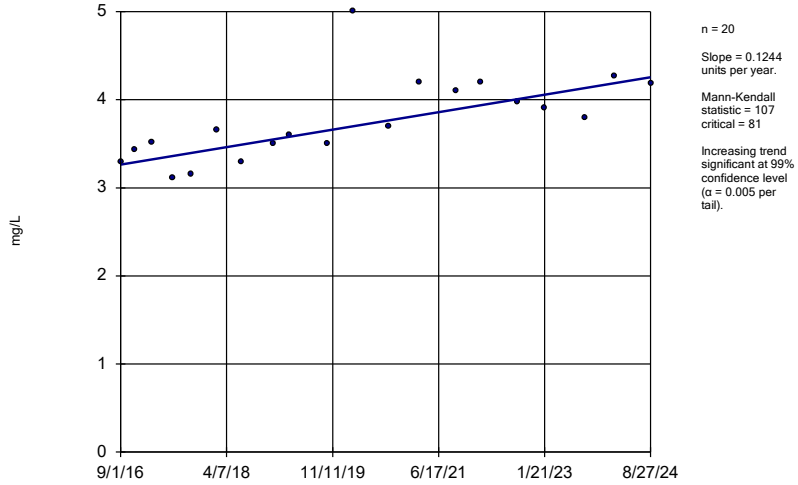
Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0.1244 units per year.

Mann-Kendall statistic = 107 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

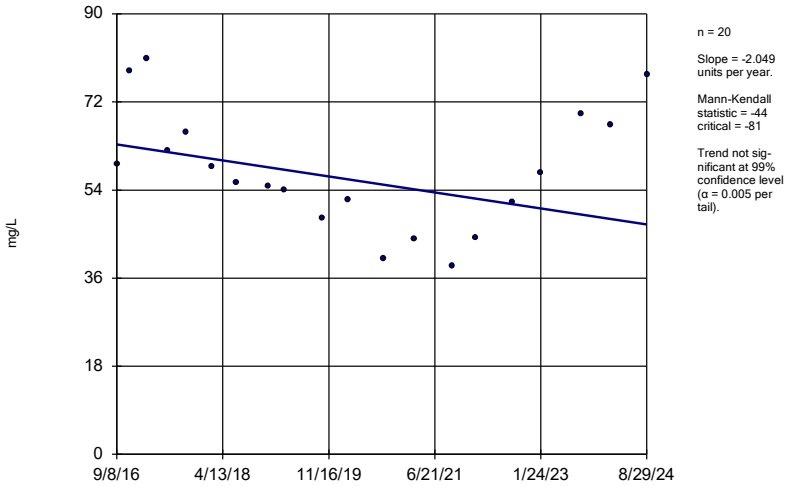
Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-25I



n = 20

Slope = -2.049 units per year.

Mann-Kendall statistic = -44
critical = -81

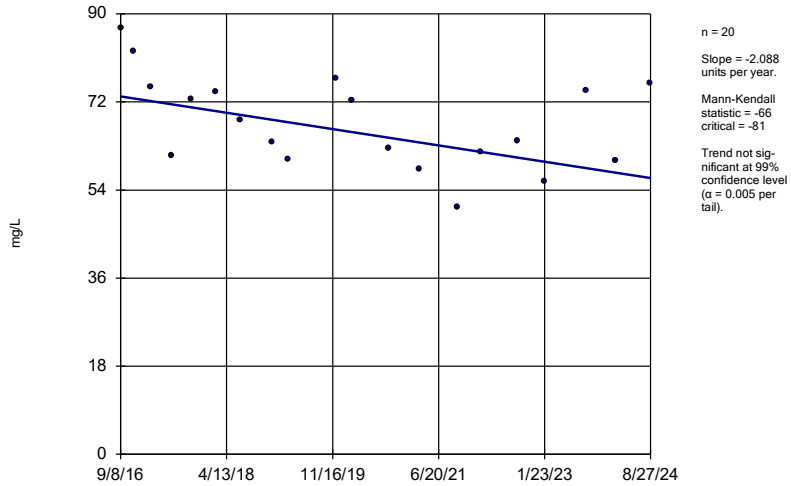
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-27I



n = 20

Slope = -2.088 units per year.

Mann-Kendall statistic = -66
critical = -81

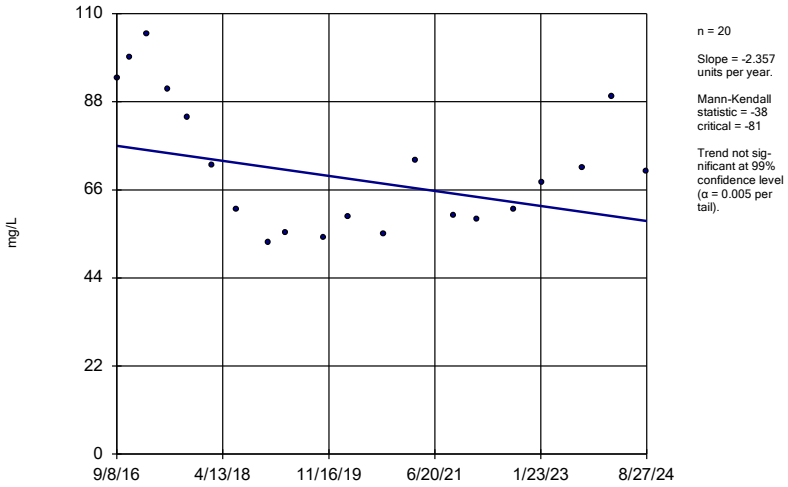
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-29I



n = 20

Slope = -2.357 units per year.

Mann-Kendall statistic = -38
critical = -81

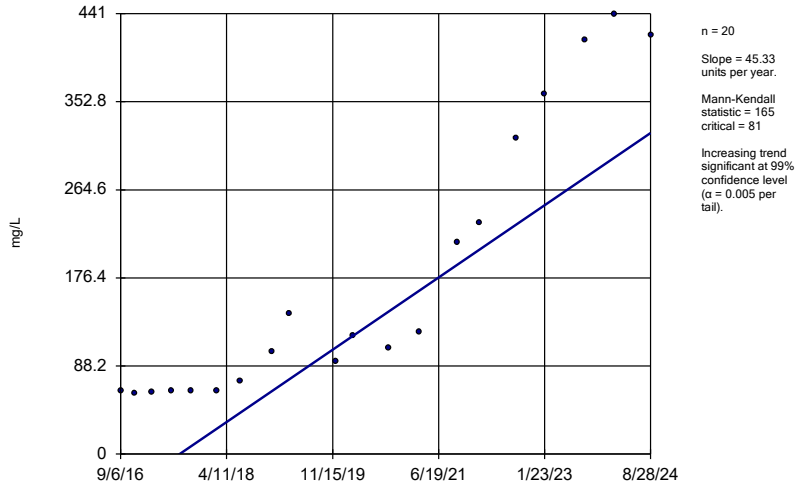
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-30I



n = 20

Slope = 45.33 units per year.

Mann-Kendall statistic = 165
critical = 81

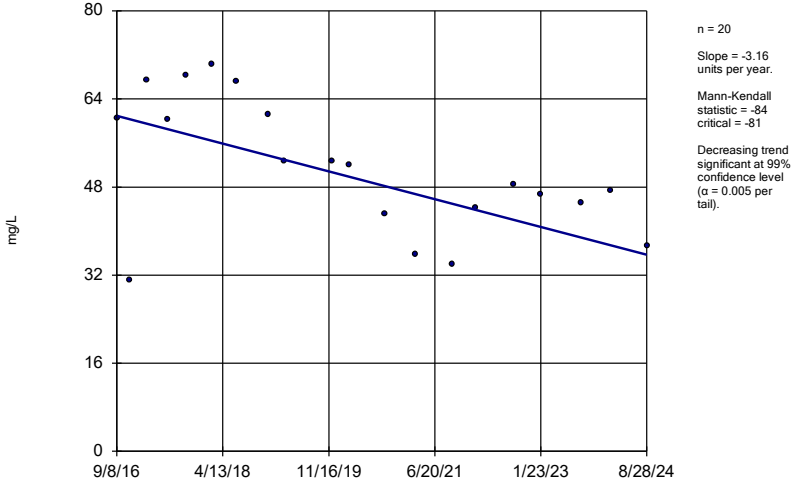
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-32S



n = 20

Slope = -3.16 units per year.

Mann-Kendall statistic = -84
critical = -81

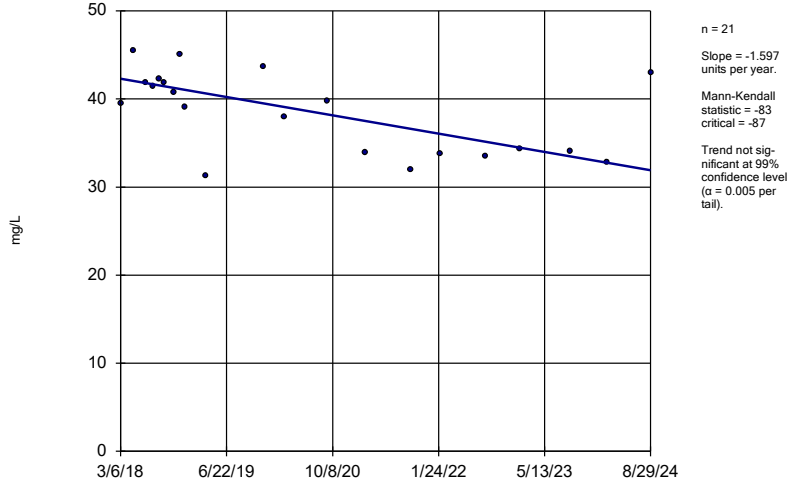
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-45



n = 21

Slope = -1.597 units per year.

Mann-Kendall statistic = -83
critical = -87

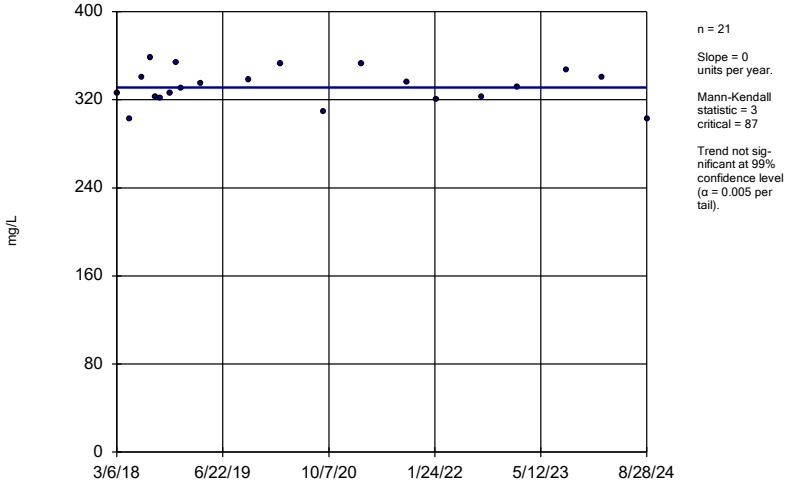
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-47



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 87

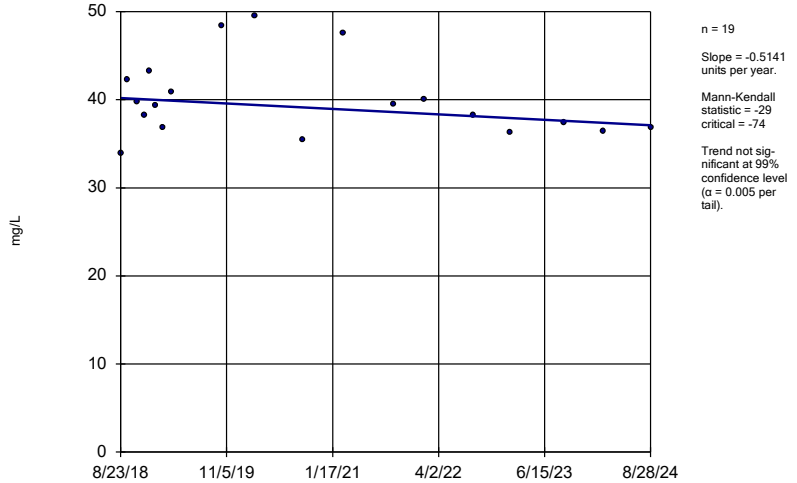
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-52I



n = 19

Slope = -0.5141 units per year.

Mann-Kendall statistic = -29
critical = -74

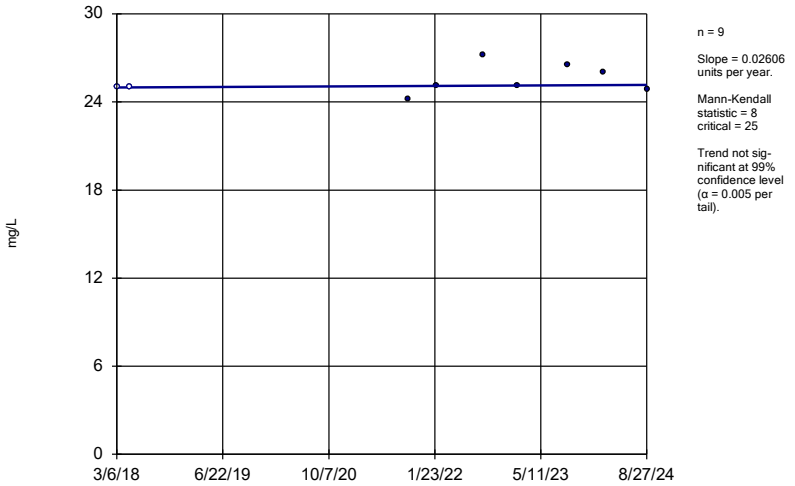
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-44



n = 9

Slope = 0.02606 units per year.

Mann-Kendall statistic = 8
critical = 25

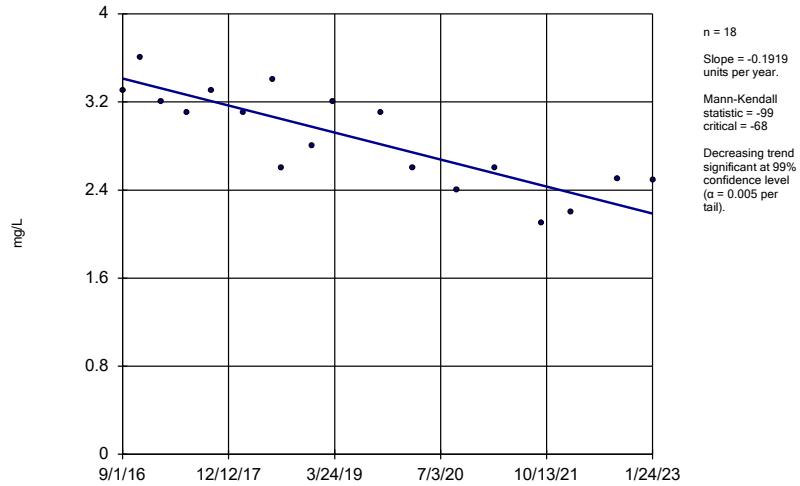
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.1919 units per year.

Mann-Kendall statistic = -99
critical = -68

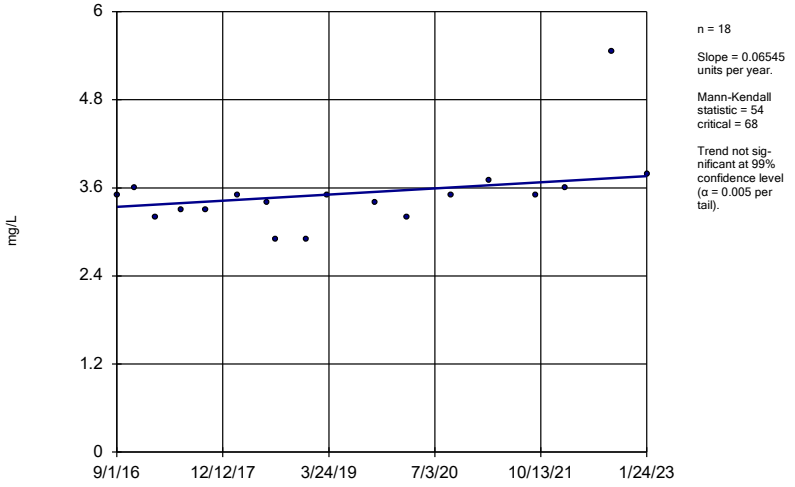
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0.06545 units per year.

Mann-Kendall statistic = 54
critical = 68

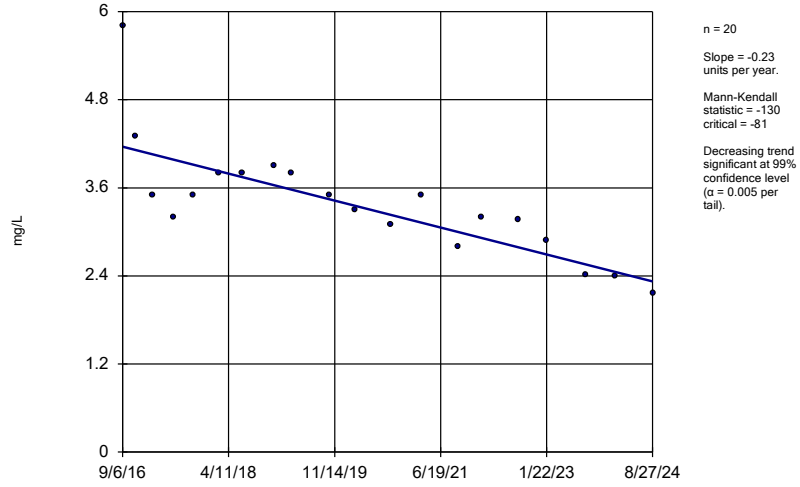
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = -0.23 units per year.

Mann-Kendall statistic = -130
critical = -81

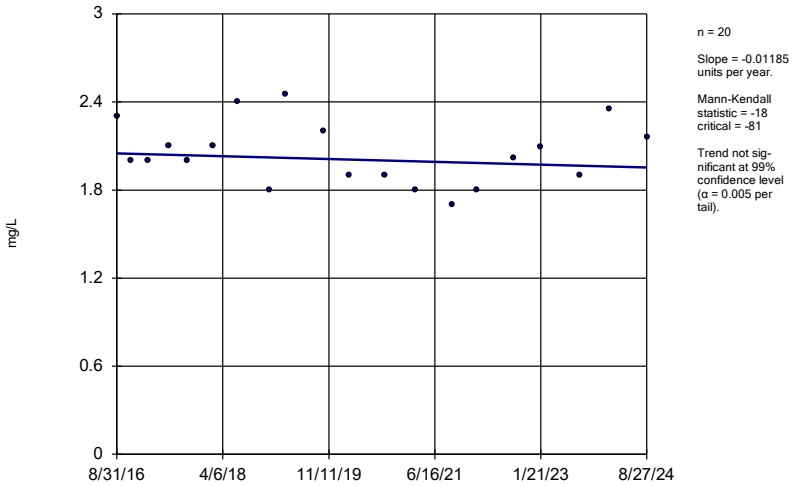
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = -0.01185 units per year.

Mann-Kendall statistic = -18
critical = -81

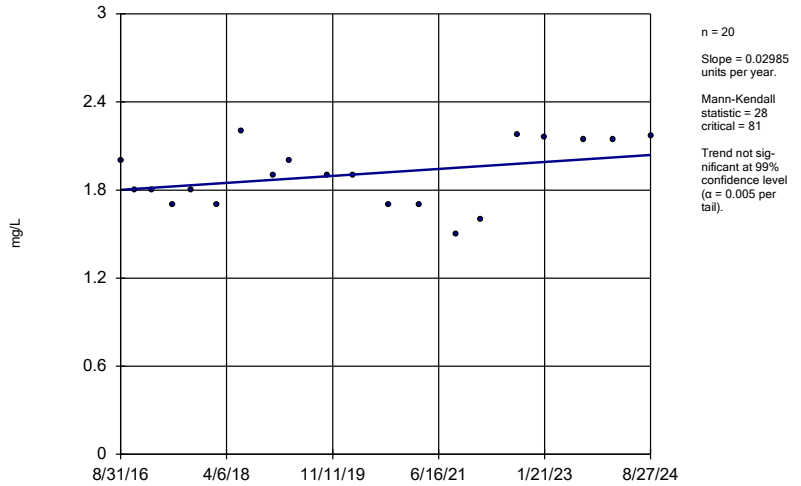
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0.02985 units per year.

Mann-Kendall statistic = 28
critical = 81

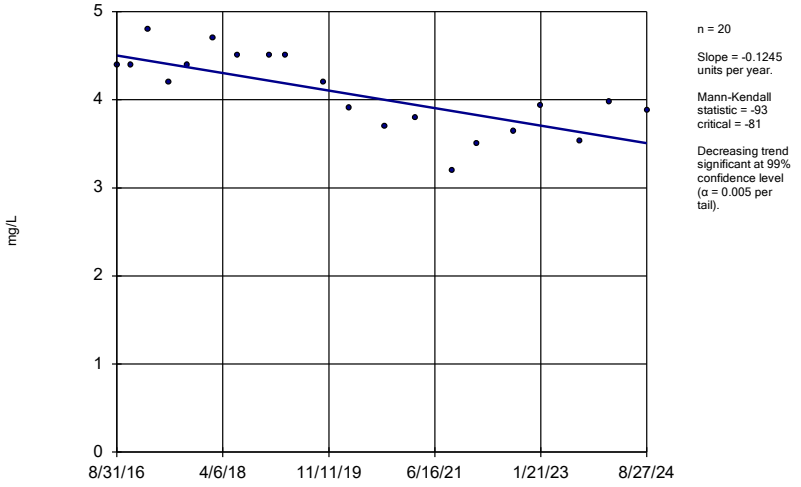
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = -0.1245 units per year.

Mann-Kendall statistic = -93
critical = -81

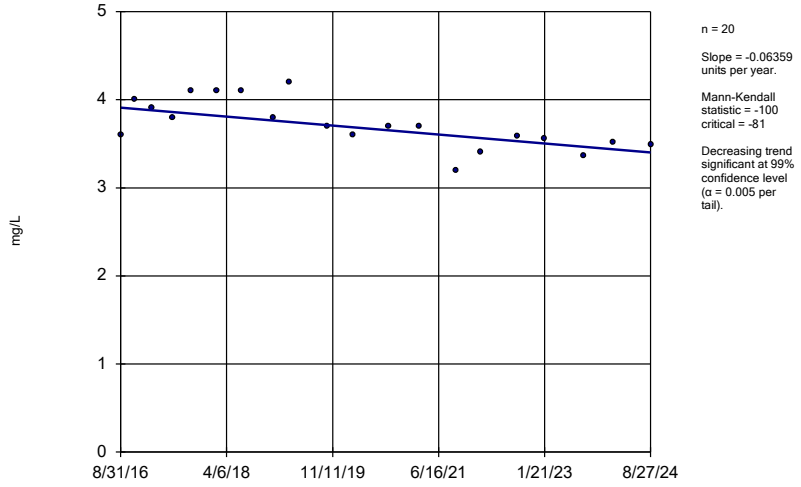
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -0.06359 units per year.

Mann-Kendall statistic = -100
critical = -81

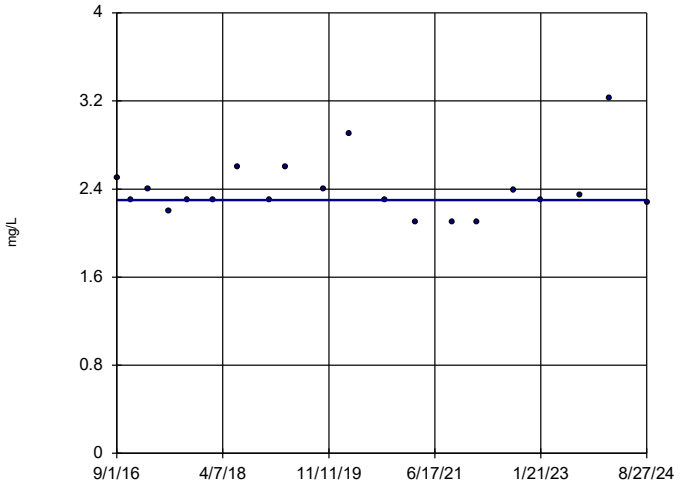
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -14 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

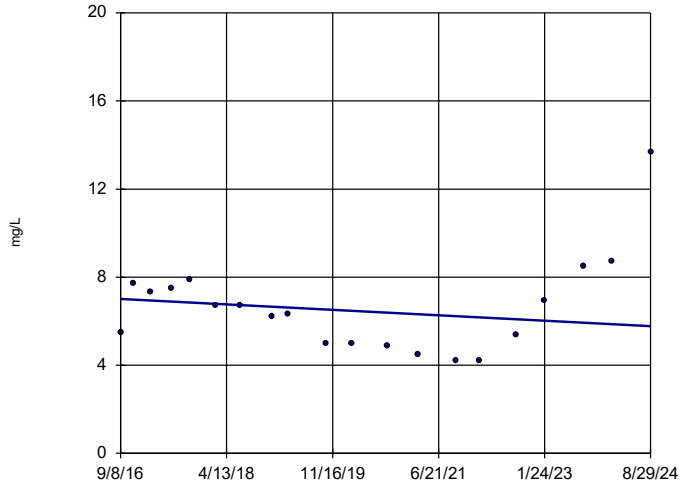
Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-25I



n = 20

Slope = -0.1552 units per year.

Mann-Kendall statistic = -17 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

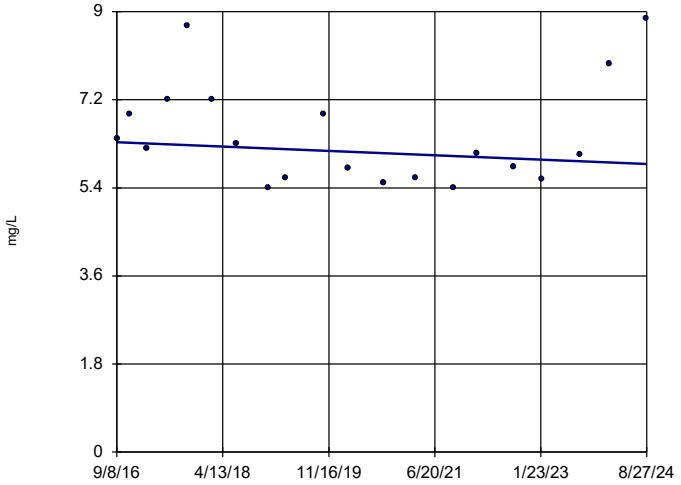
Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-29I



n = 20

Slope = -0.05551 units per year.

Mann-Kendall statistic = -22 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

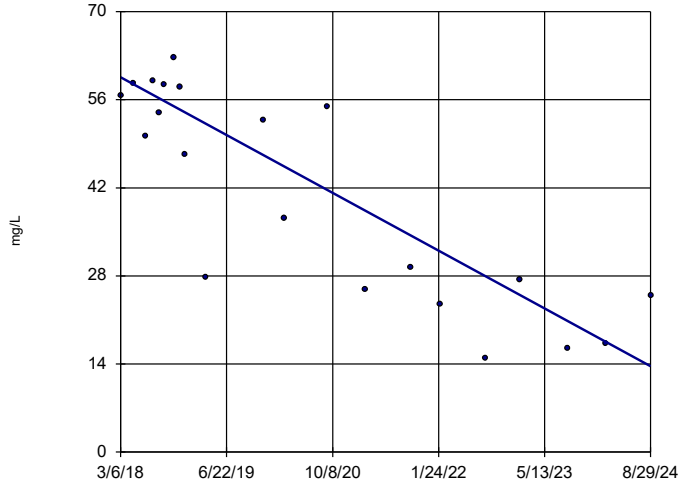
Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-45



n = 21

Slope = -7.079 units per year.

Mann-Kendall statistic = -132 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

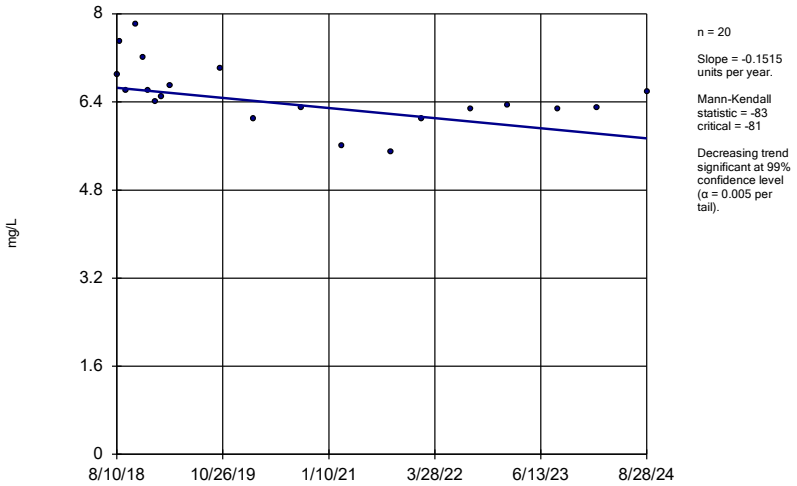
Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-52I



n = 20

Slope = -0.1515 units per year.

Mann-Kendall statistic = -83
critical = -81

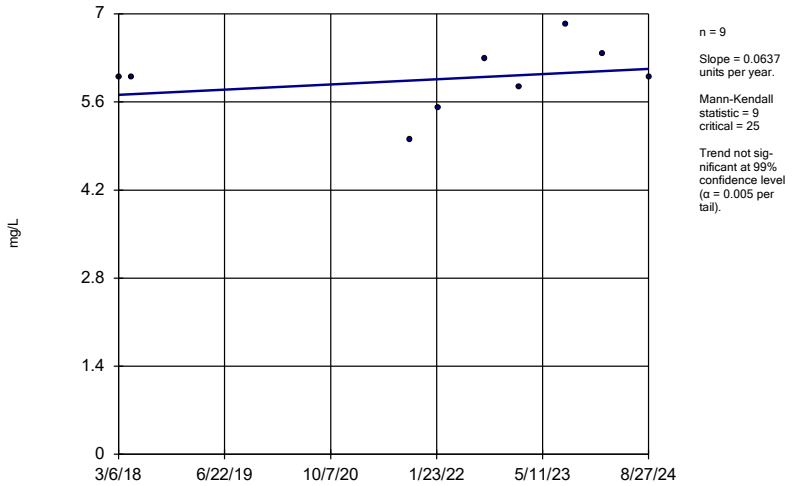
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-44



n = 9

Slope = 0.0637 units per year.

Mann-Kendall statistic = 9
critical = 25

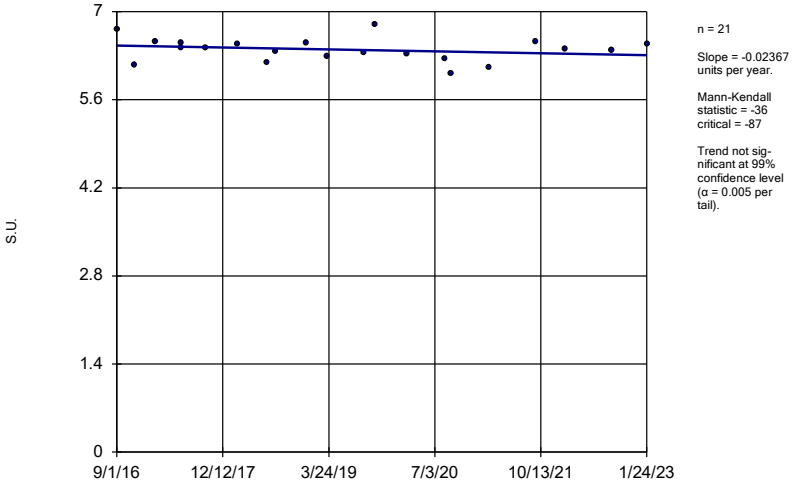
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-12I (bg)



n = 21

Slope = -0.02367 units per year.

Mann-Kendall statistic = -36
critical = -87

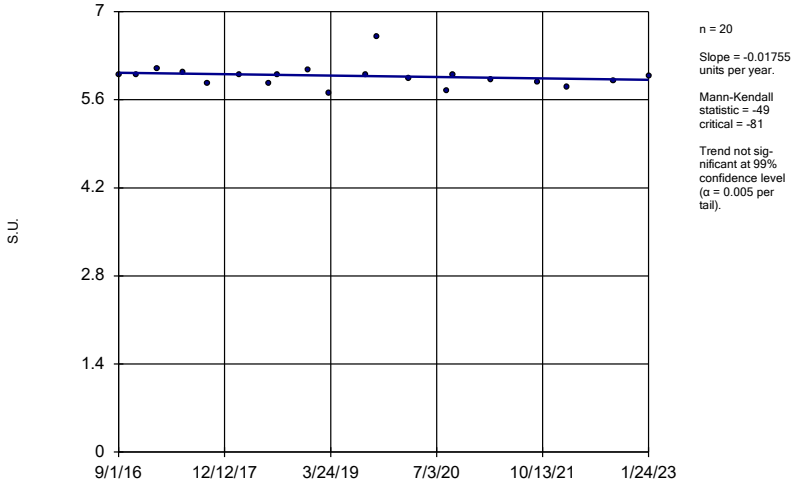
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-12S (bg)



n = 20

Slope = -0.01755 units per year.

Mann-Kendall statistic = -49
critical = -81

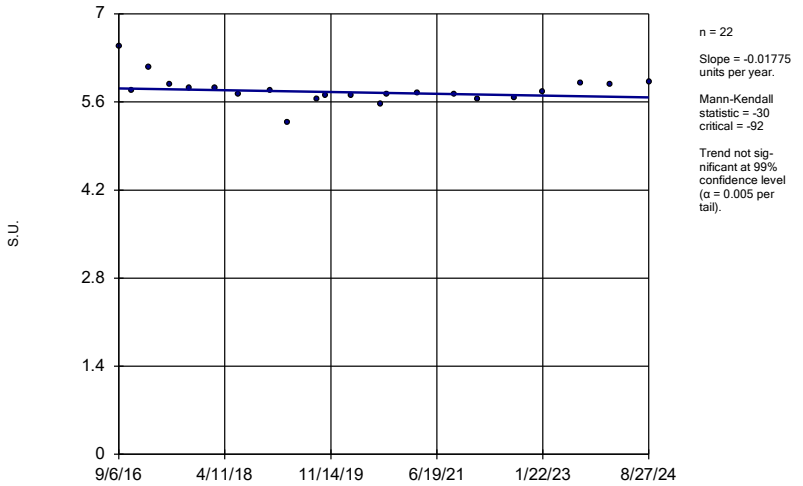
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-23S (bg)



n = 22

Slope = -0.01775 units per year.

Mann-Kendall statistic = -30
critical = -92

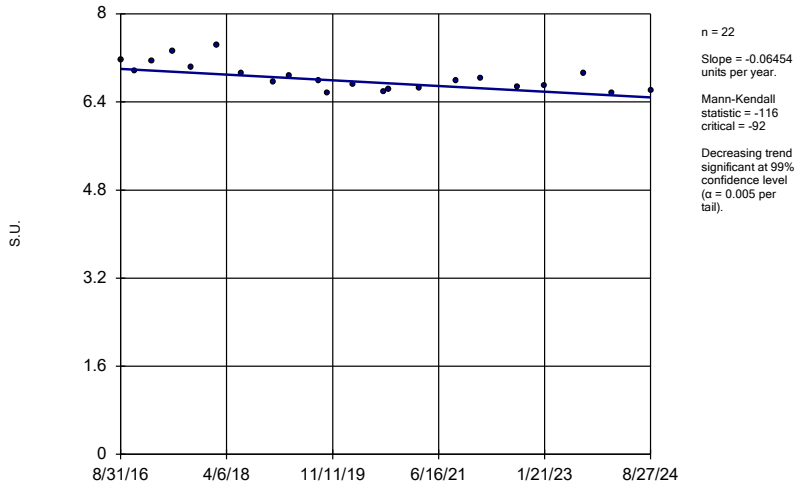
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-2I (bg)



n = 22

Slope = -0.06454 units per year.

Mann-Kendall statistic = -116
critical = -92

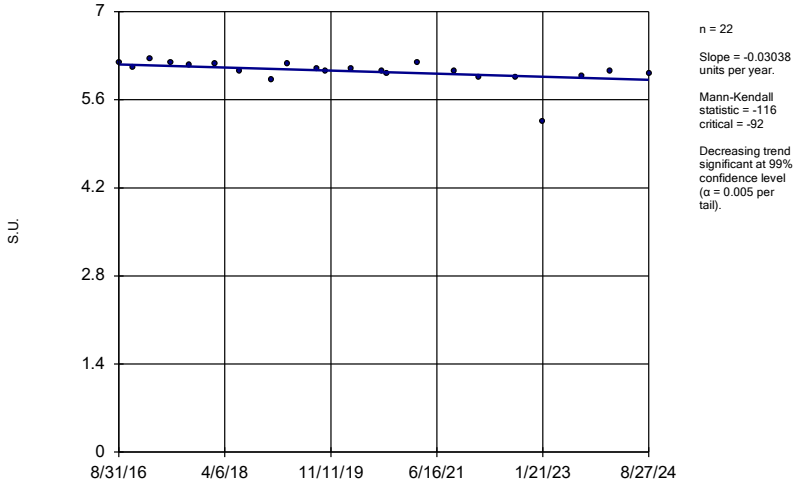
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-2S (bg)



n = 22

Slope = -0.03038 units per year.

Mann-Kendall statistic = -116
critical = -92

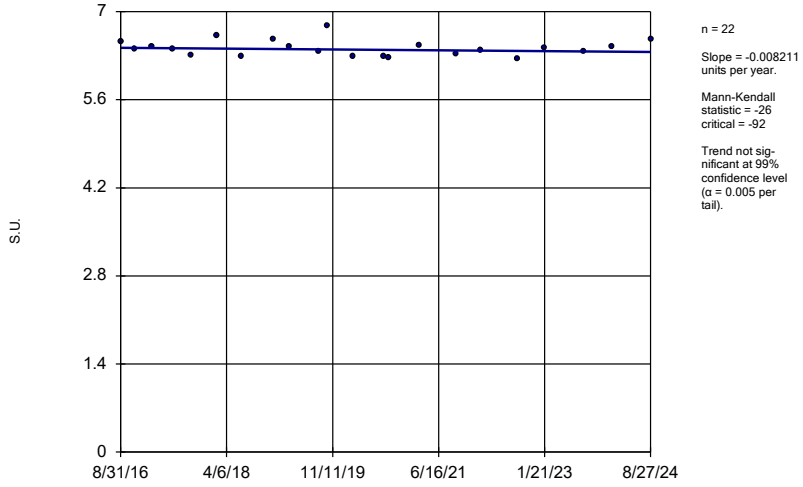
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-5I (bg)



n = 22

Slope = -0.008211 units per year.

Mann-Kendall statistic = -26
critical = -92

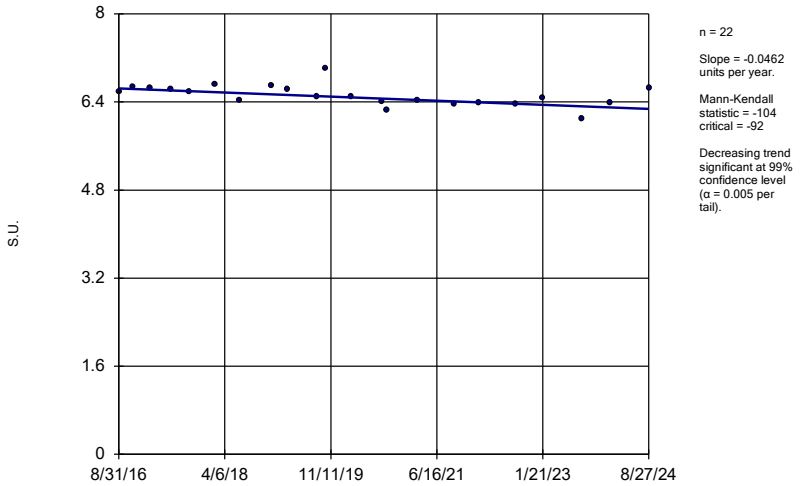
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-5S (bg)



n = 22

Slope = -0.0462 units per year.

Mann-Kendall statistic = -104 critical = -92

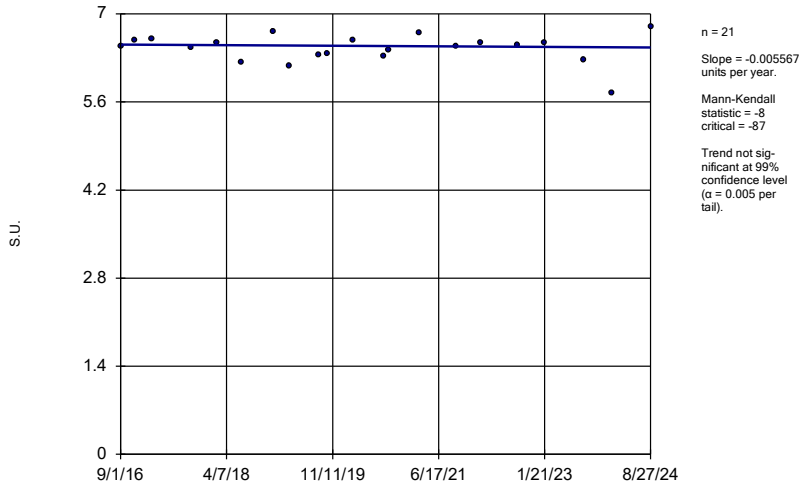
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = -0.005567 units per year.

Mann-Kendall statistic = -8 critical = -87

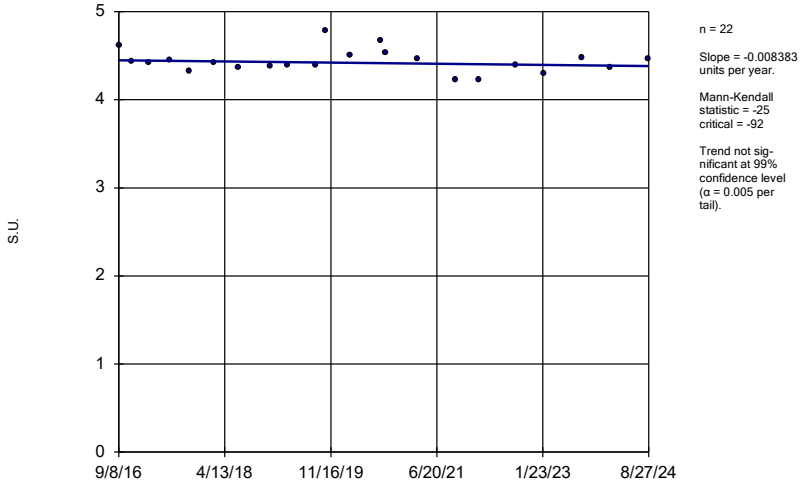
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-29I



n = 22

Slope = -0.008383 units per year.

Mann-Kendall statistic = -25 critical = -92

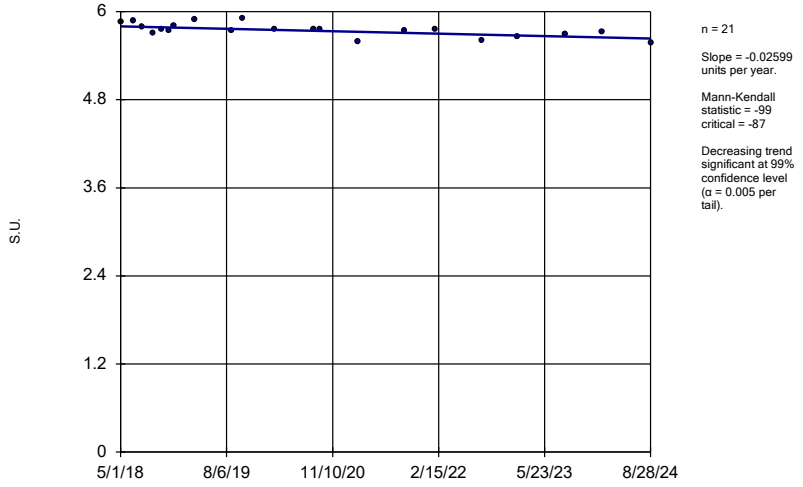
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-47



n = 21

Slope = -0.02599 units per year.

Mann-Kendall statistic = -99 critical = -87

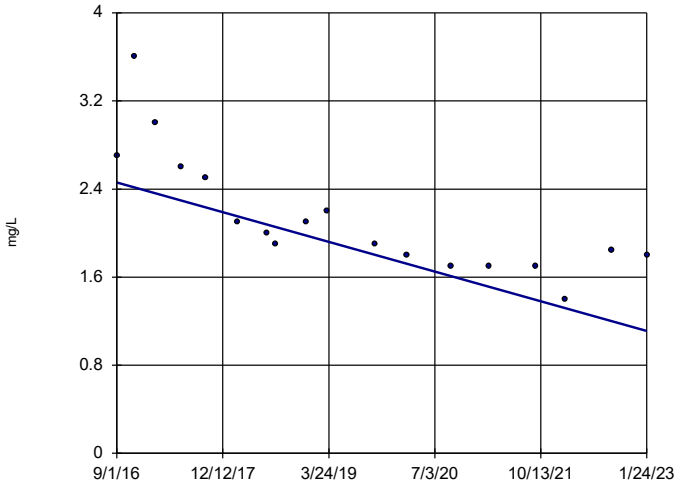
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.2108 units per year.

Mann-Kendall statistic = -113 critical = -68

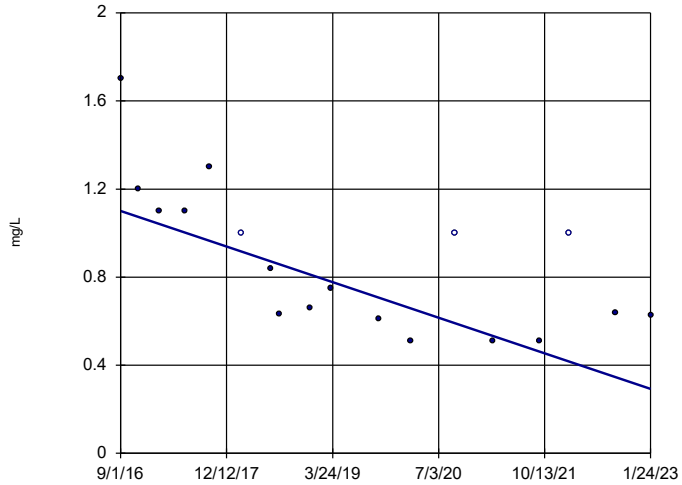
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = -0.126 units per year.

Mann-Kendall statistic = -88 critical = -68

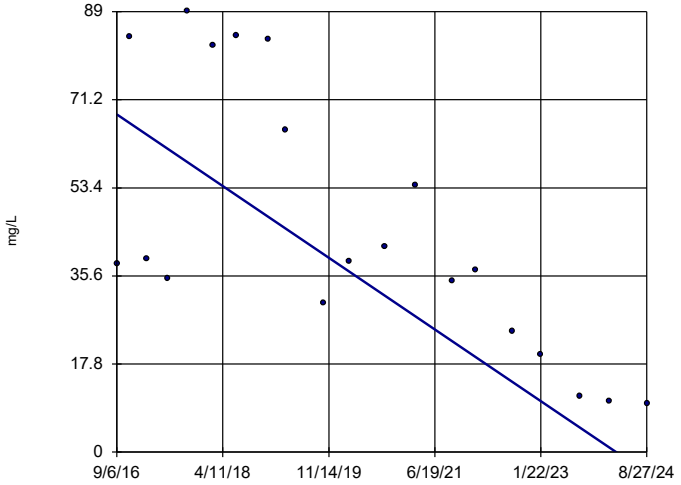
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = -9.079 units per year.

Mann-Kendall statistic = -112 critical = -81

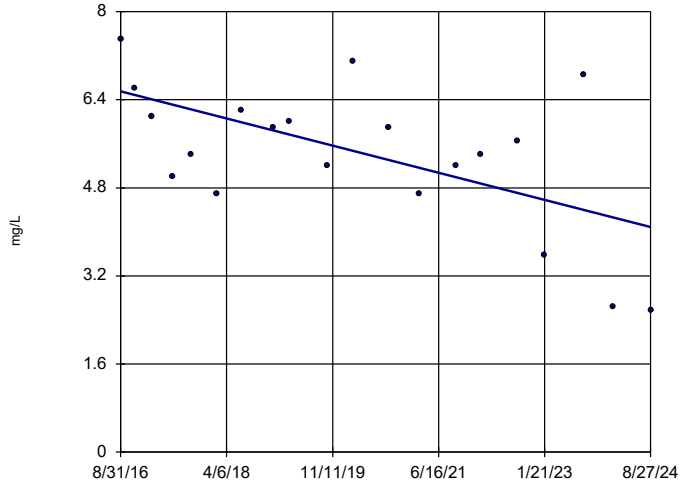
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = -0.308 units per year.

Mann-Kendall statistic = -72 critical = -81

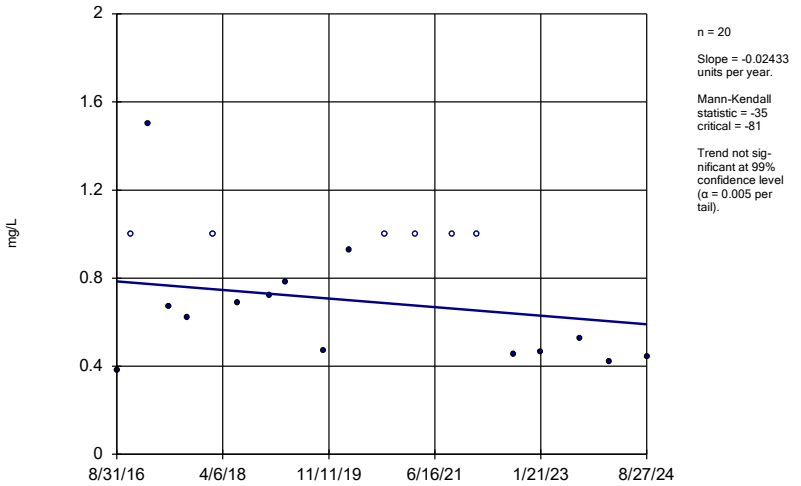
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = -0.02433 units per year.

Mann-Kendall statistic = -35
critical = -81

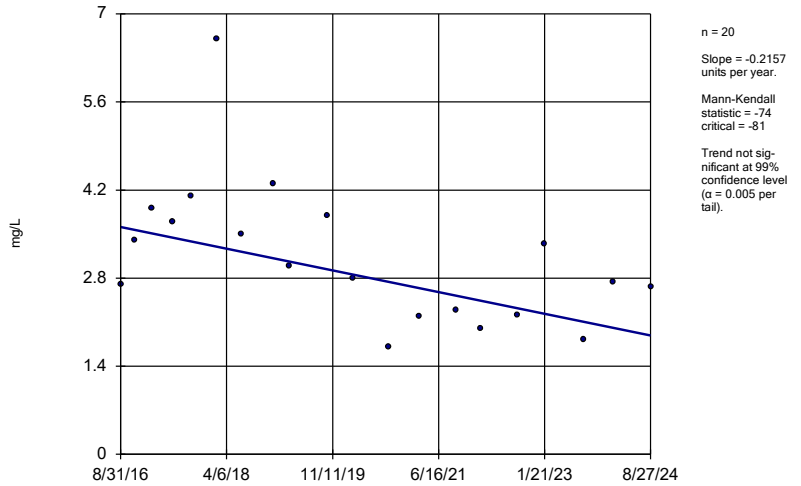
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = -0.2157 units per year.

Mann-Kendall statistic = -74
critical = -81

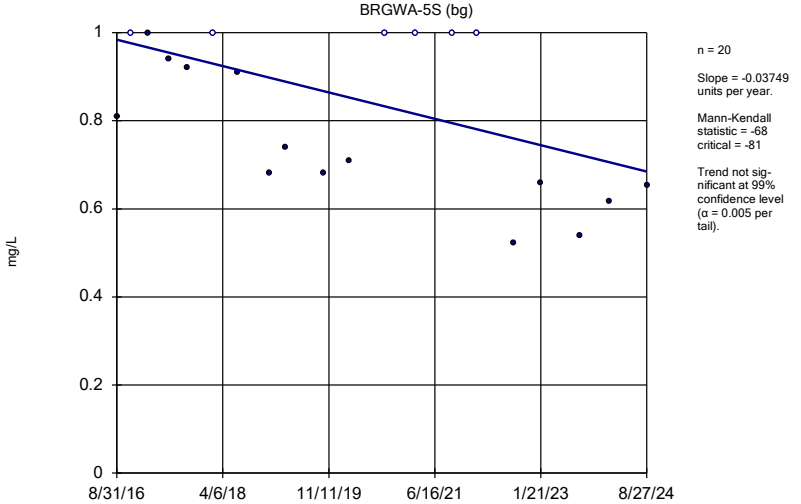
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -0.03749 units per year.

Mann-Kendall statistic = -68
critical = -81

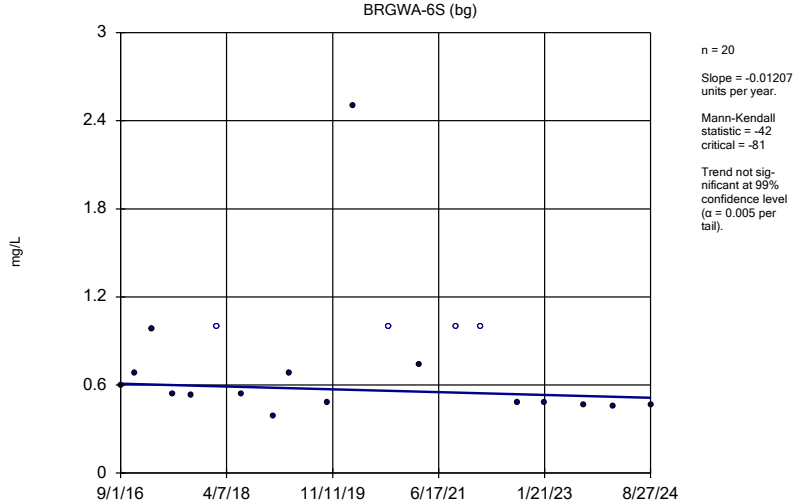
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = -0.01207 units per year.

Mann-Kendall statistic = -42
critical = -81

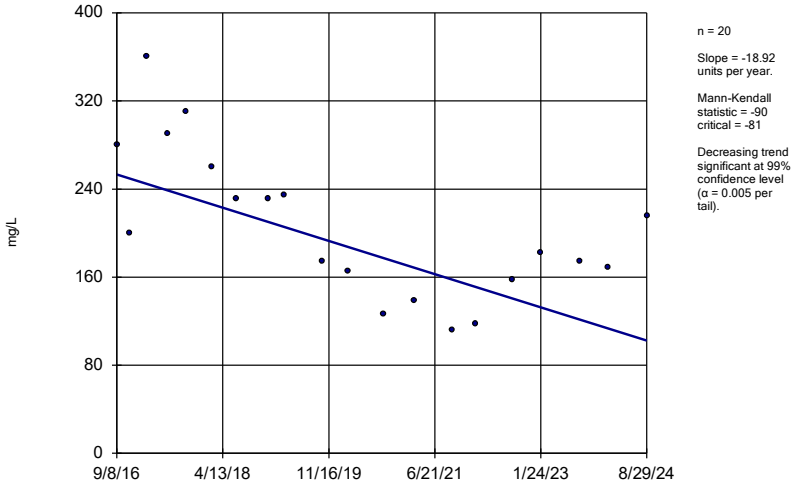
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-25I



n = 20

Slope = -18.92 units per year.

Mann-Kendall statistic = -90 critical = -81

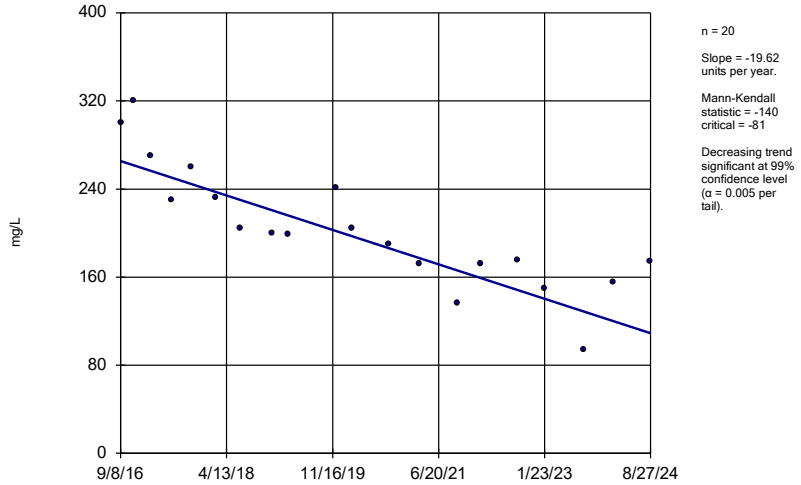
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-27I



n = 20

Slope = -19.62 units per year.

Mann-Kendall statistic = -140 critical = -81

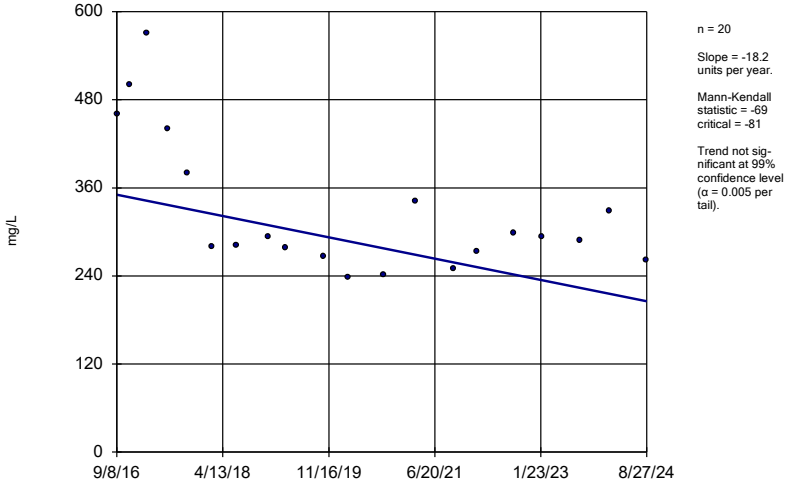
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-29I



n = 20

Slope = -18.2 units per year.

Mann-Kendall statistic = -69 critical = -81

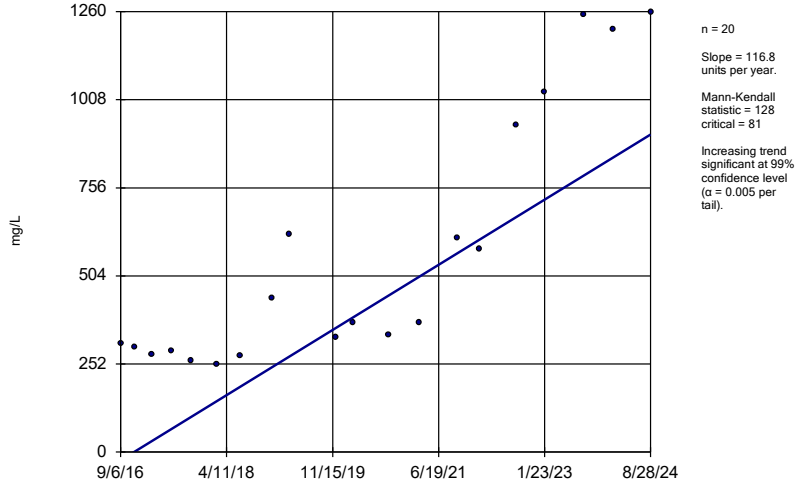
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-30I



n = 20

Slope = 116.8 units per year.

Mann-Kendall statistic = 128 critical = 81

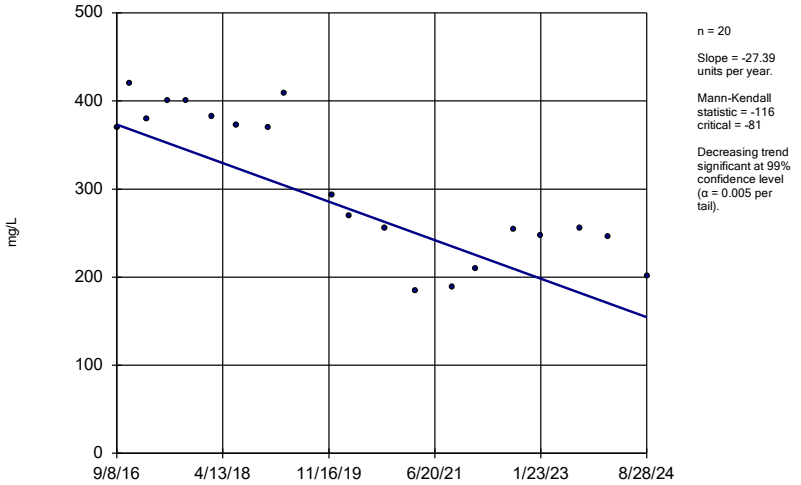
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-32S



n = 20

Slope = -27.39 units per year.

Mann-Kendall statistic = -116 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

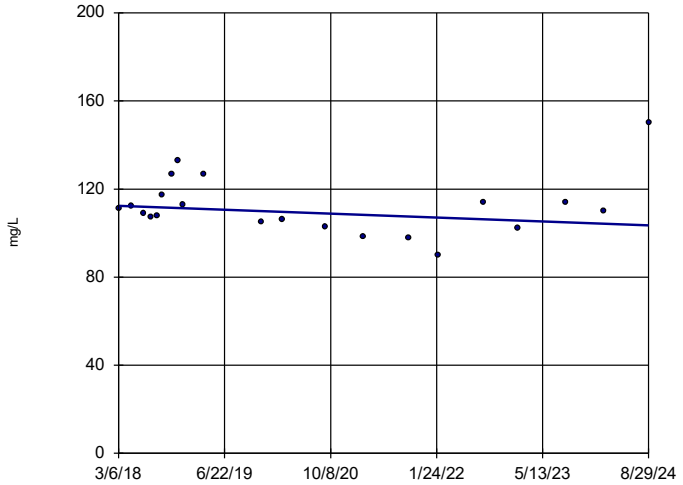
Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-45



n = 21

Slope = -1.369 units per year.

Mann-Kendall statistic = -26 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

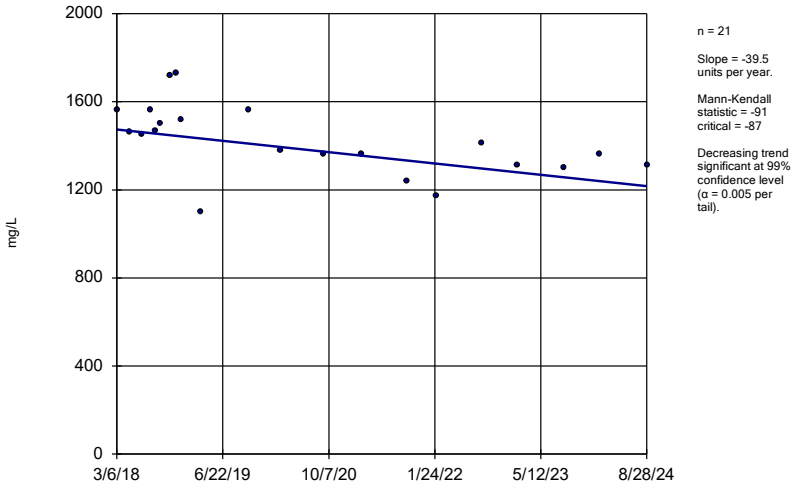
Constituent: Sulfate Analysis Run 1/10/2025 11:10 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-47



n = 21

Slope = -39.5 units per year.

Mann-Kendall statistic = -91 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

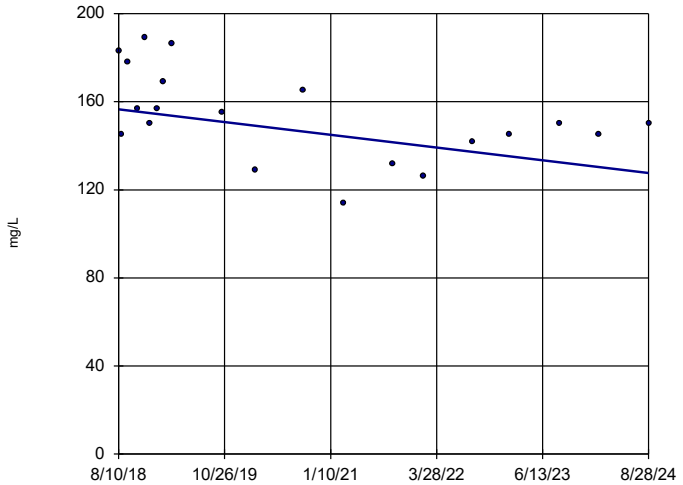
Constituent: Sulfate Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-52I



n = 20

Slope = -4.768 units per year.

Mann-Kendall statistic = -63 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

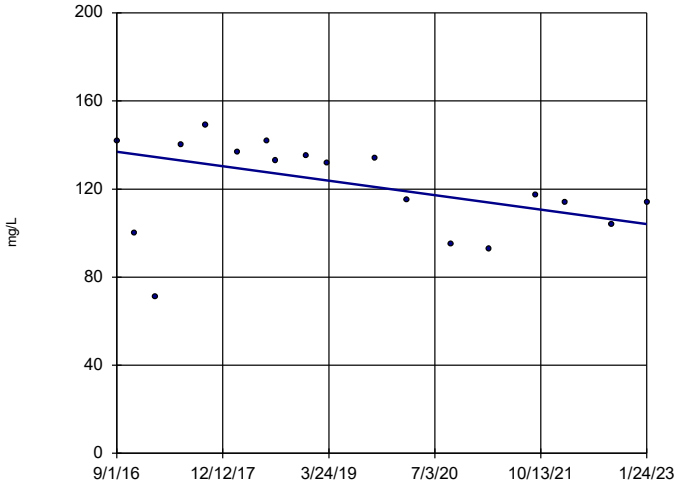
Constituent: Sulfate Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -5.117 units per year.

Mann-Kendall statistic = -61 critical = -68

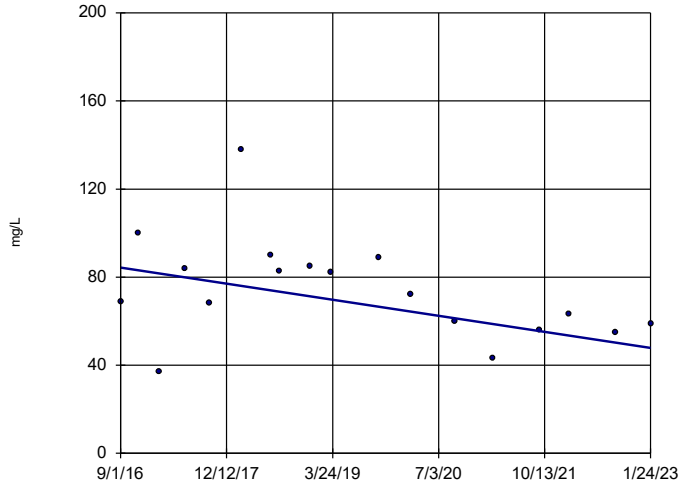
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = -5.699 units per year.

Mann-Kendall statistic = -57 critical = -68

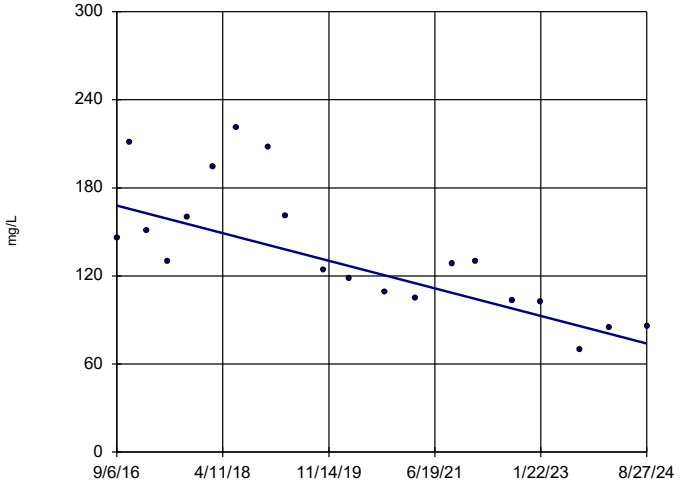
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = -11.78 units per year.

Mann-Kendall statistic = -117 critical = -81

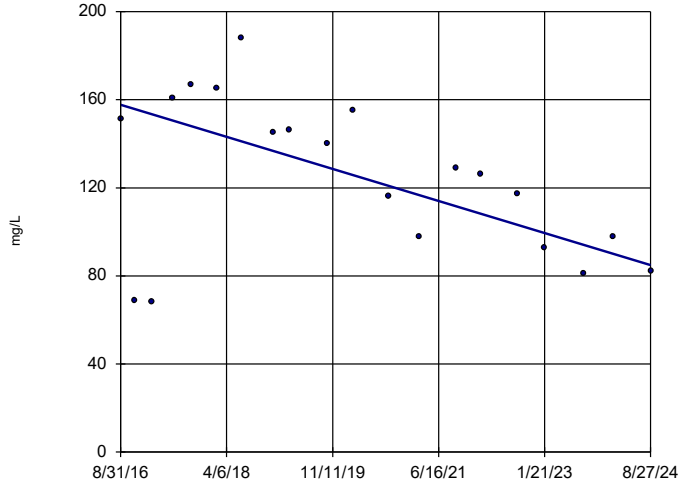
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = -9.102 units per year.

Mann-Kendall statistic = -75 critical = -81

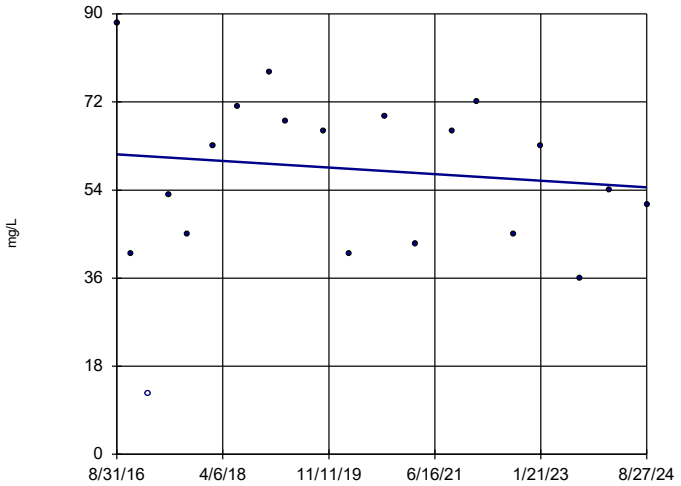
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = -0.8471 units per year.

Mann-Kendall statistic = -12
critical = -81

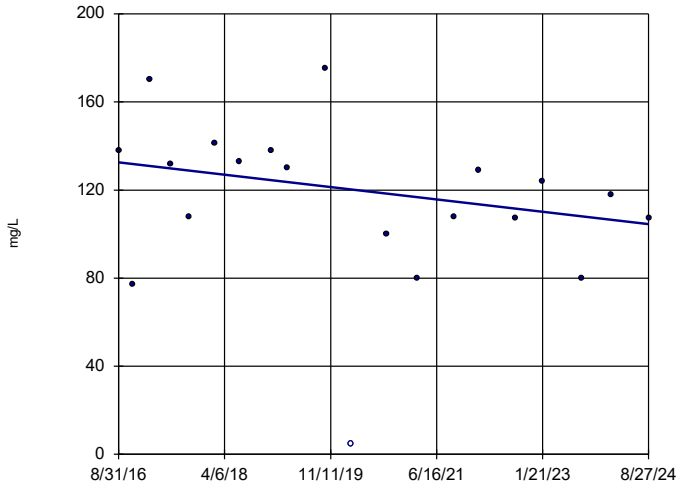
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = -3.51 units per year.

Mann-Kendall statistic = -54
critical = -81

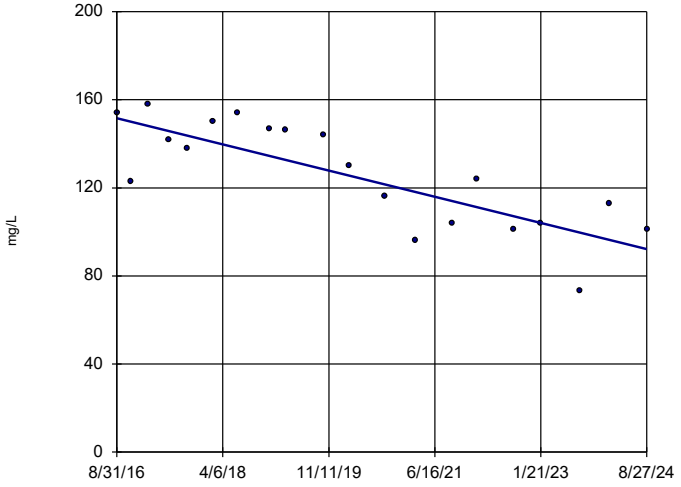
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -7.447 units per year.

Mann-Kendall statistic = -115
critical = -81

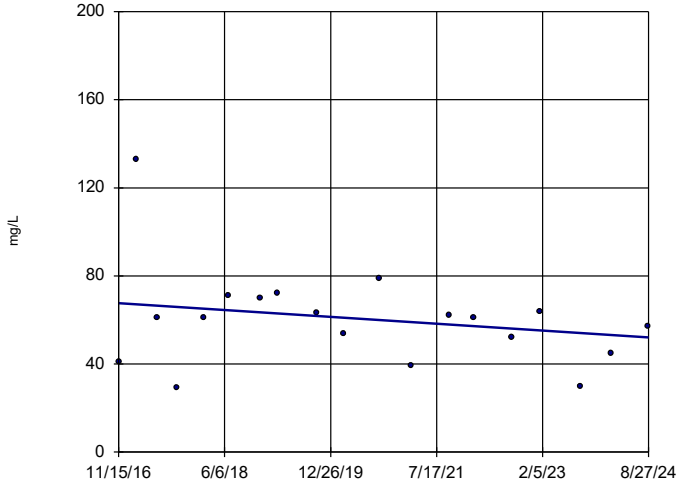
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = -1.988 units per year.

Mann-Kendall statistic = -30
critical = -74

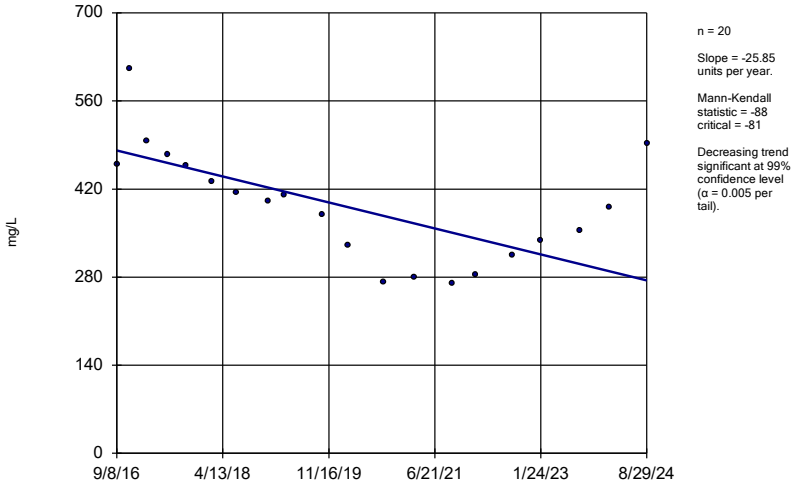
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-25I



n = 20

Slope = -25.85 units per year.

Mann-Kendall statistic = -88 critical = -81

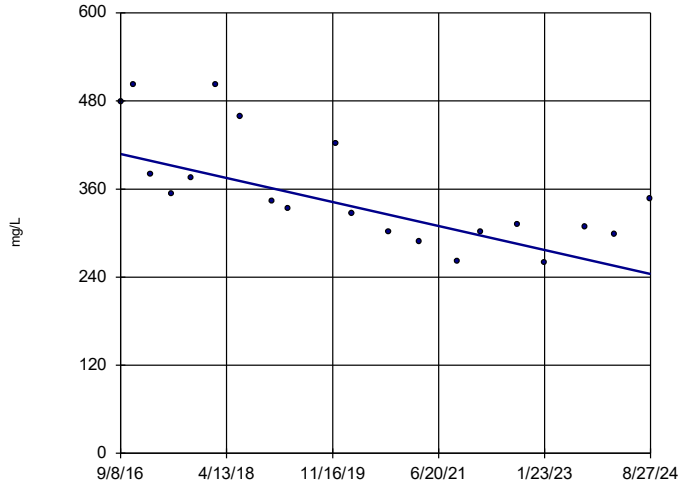
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-27I



n = 20

Slope = -20.5 units per year.

Mann-Kendall statistic = -110 critical = -81

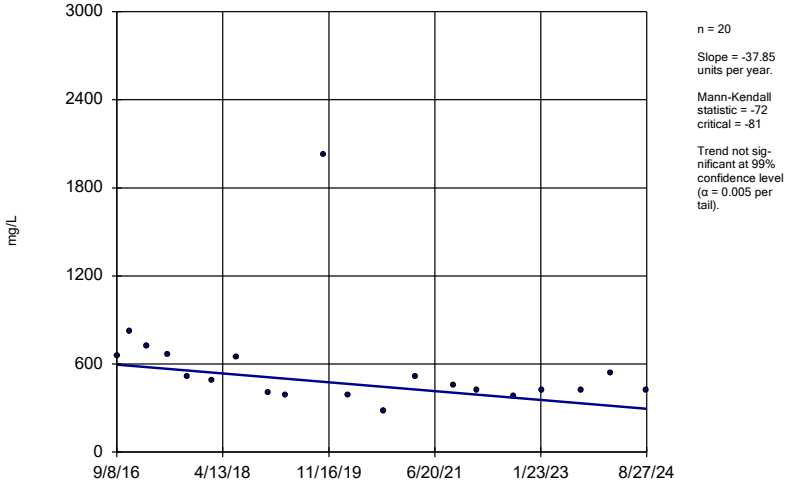
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-29I



n = 20

Slope = -37.85 units per year.

Mann-Kendall statistic = -72 critical = -81

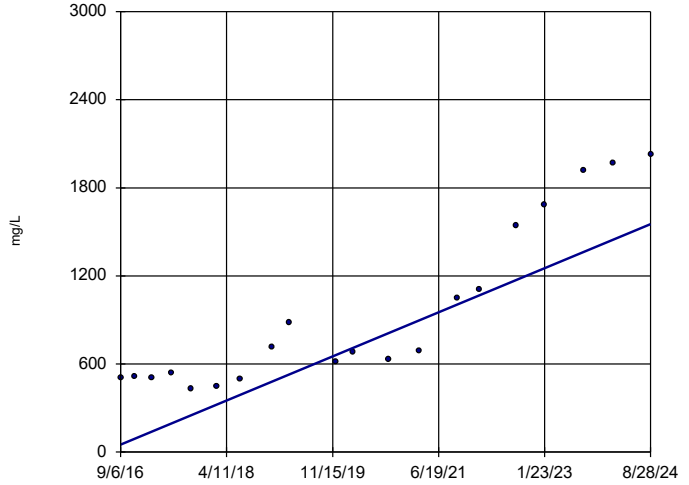
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-30I



n = 20

Slope = 188.3 units per year.

Mann-Kendall statistic = 144 critical = 81

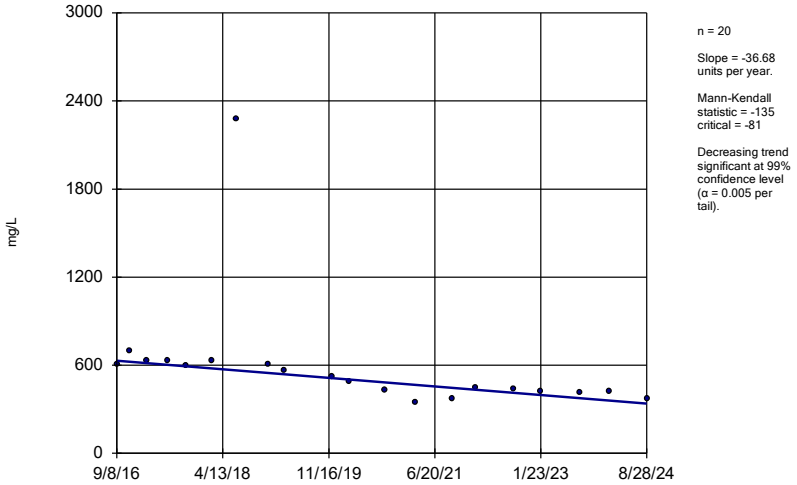
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-32S



n = 20

Slope = -36.68 units per year.

Mann-Kendall statistic = -135 critical = -81

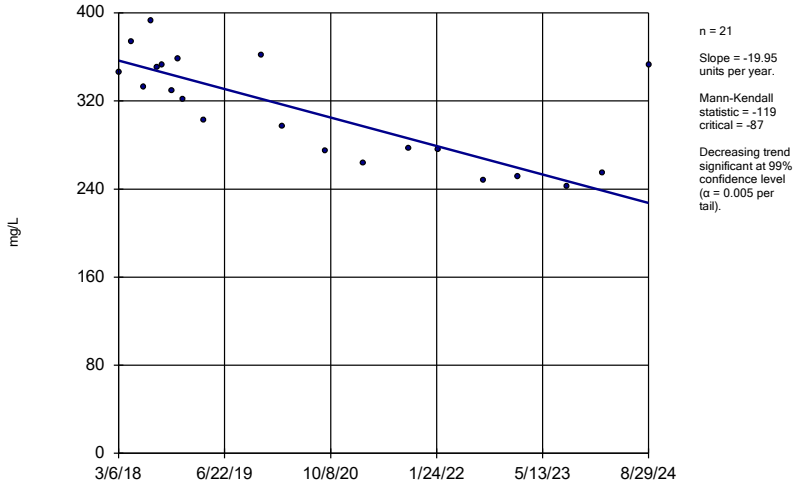
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-45



n = 21

Slope = -19.95 units per year.

Mann-Kendall statistic = -119 critical = -87

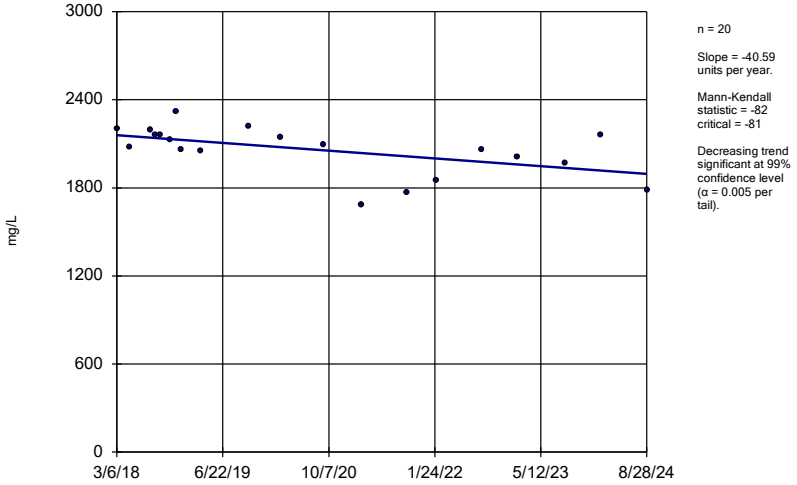
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-47



n = 20

Slope = -40.59 units per year.

Mann-Kendall statistic = -82 critical = -81

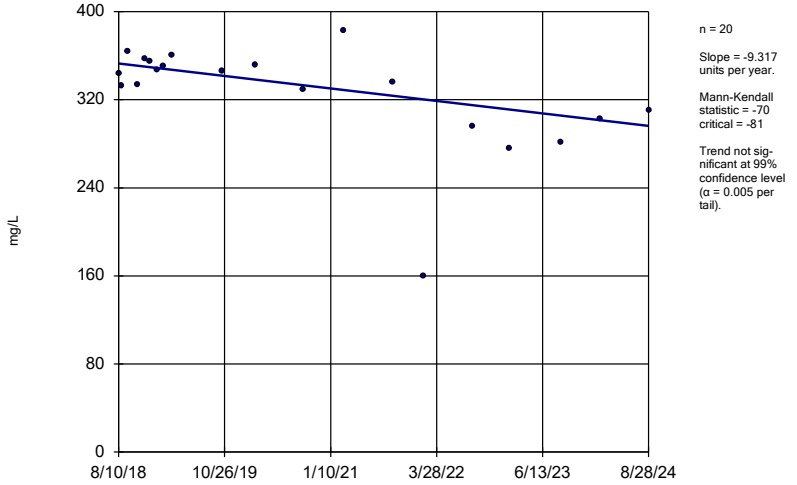
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

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Sen's Slope Estimator

BRGWC-52I



n = 20

Slope = -9.317 units per year.

Mann-Kendall statistic = -70 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 1/10/2025 11:11 AM View: Pond BCD - Appendix III Tre
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE F.

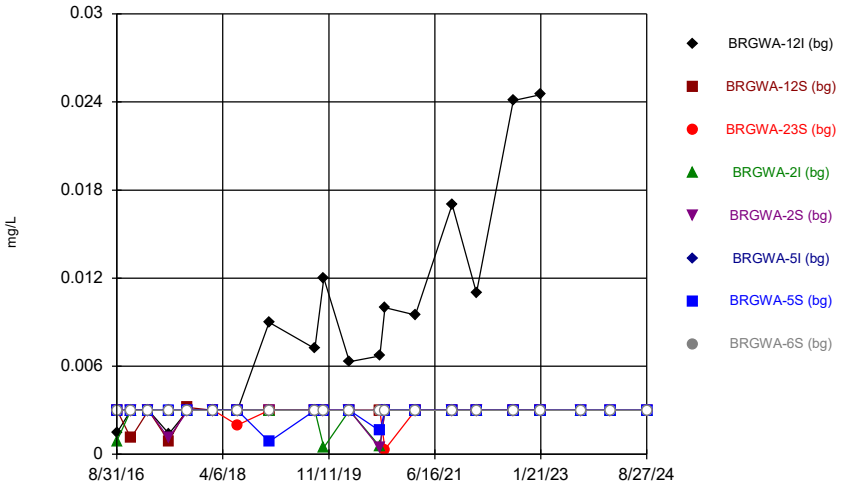
Upper Tolerance Limits

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 10:24 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0245	n/a	n/a	n/a	162	n/a	n/a	84.57	n/a	n/a	0.0002462	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	162	n/a	n/a	78.4	n/a	n/a	0.0002462	NP Inter(NDs)
Barium (mg/L)	n/a	0.13	n/a	n/a	n/a	162	n/a	n/a	0	n/a	n/a	0.0002462	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	162	n/a	n/a	100	n/a	n/a	0.0002462	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	164	n/a	n/a	98.78	n/a	n/a	0.0002222	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	162	n/a	n/a	21.6	n/a	n/a	0.0002462	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0135	n/a	n/a	n/a	162	n/a	n/a	54.94	n/a	n/a	0.0002462	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	2.326	n/a	n/a	n/a	162	0.9094	0.3312	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.42	n/a	n/a	n/a	170	n/a	n/a	47.06	n/a	n/a	0.0001633	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	162	n/a	n/a	88.89	n/a	n/a	0.0002462	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	162	n/a	n/a	41.36	n/a	n/a	0.0002462	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	146	n/a	n/a	89.73	n/a	n/a	0.0005593	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.008	n/a	n/a	n/a	159	n/a	n/a	74.21	n/a	n/a	0.0002871	NP Inter(NDs)
Selenium (mg/L)	n/a	0.006	n/a	n/a	n/a	162	n/a	n/a	92.59	n/a	n/a	0.0002462	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	162	n/a	n/a	100	n/a	n/a	0.0002462	NP Inter(NDs)

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Hollow symbols indicate censored values.

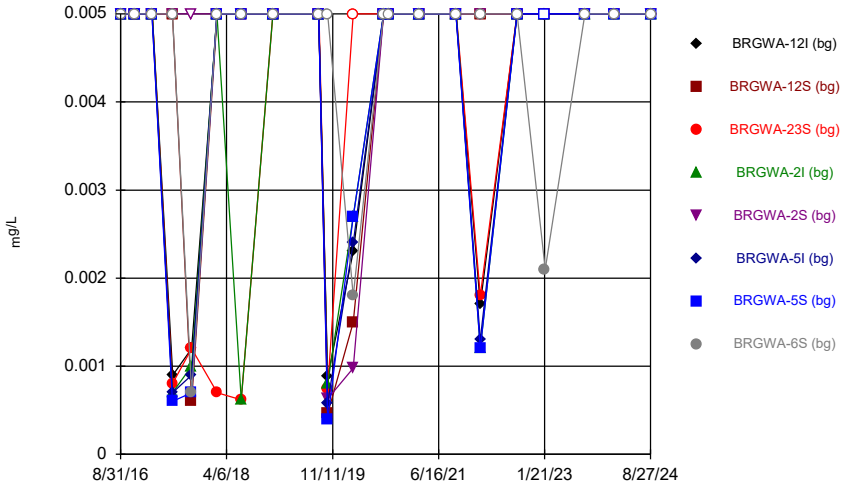
Time Series



Constituent: Antimony Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

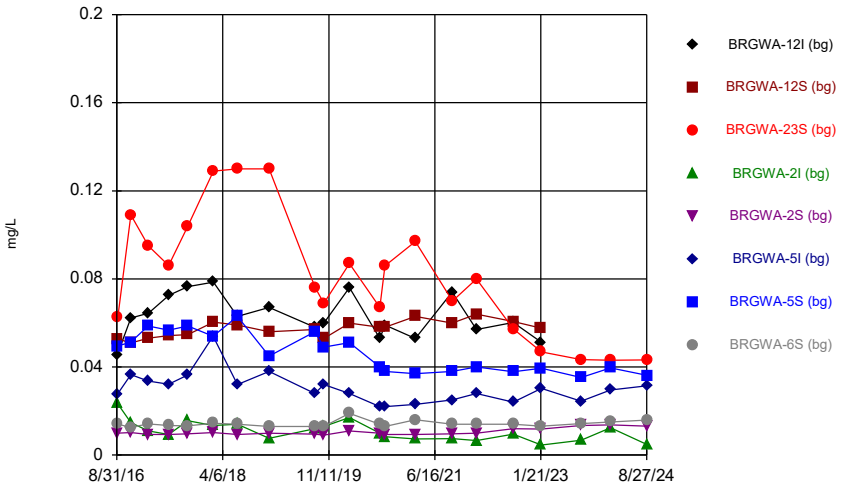
Time Series



Constituent: Arsenic Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

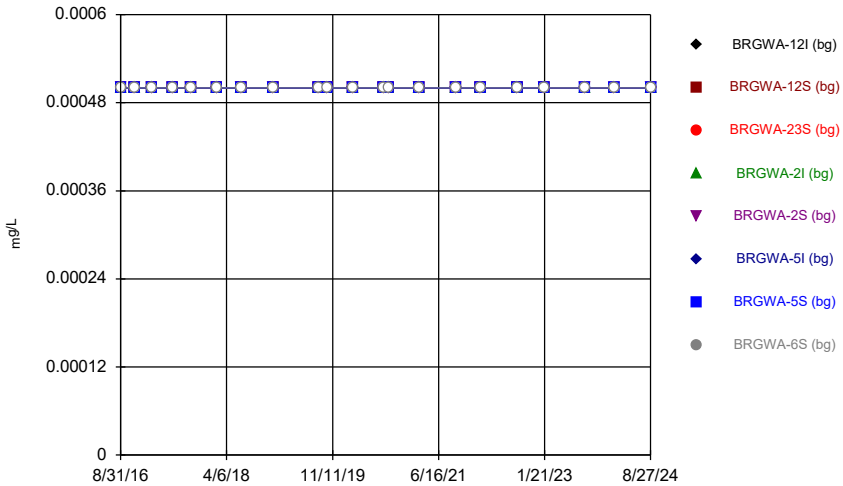
Time Series



Constituent: Barium Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

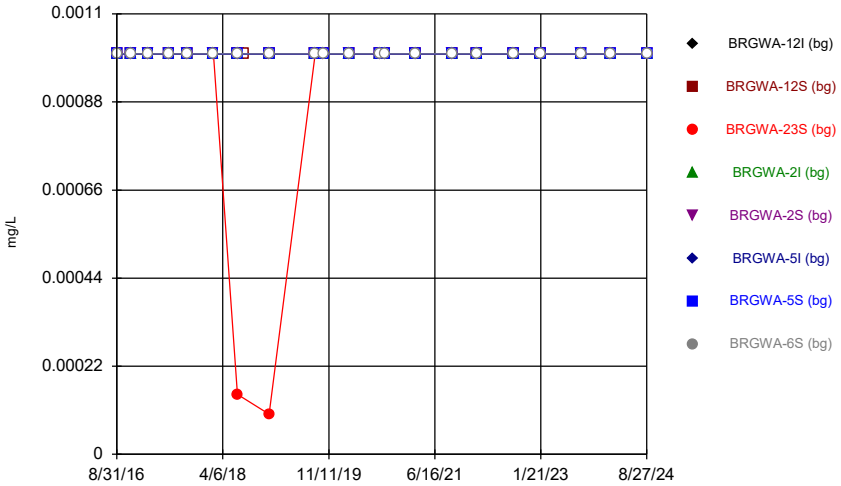
Time Series



Constituent: Beryllium Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

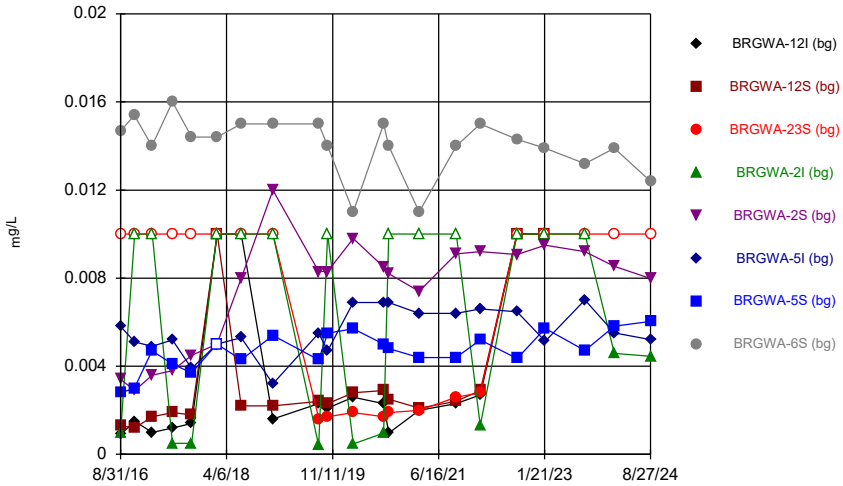
Time Series



Constituent: Cadmium Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

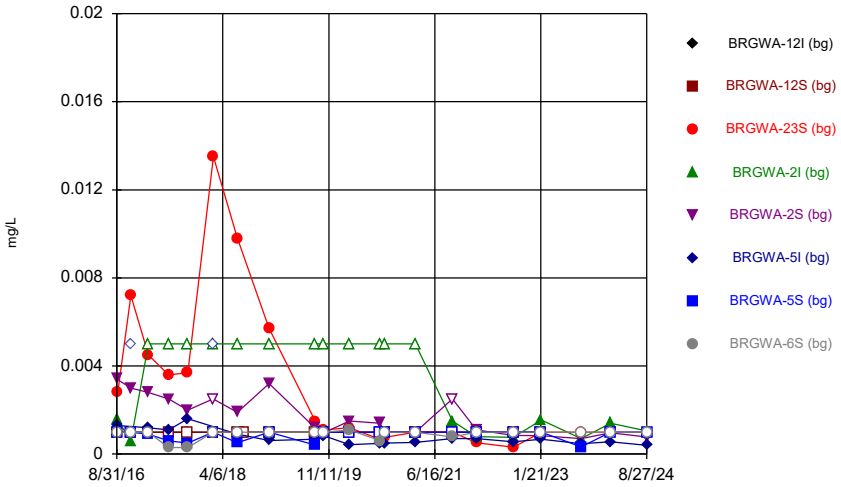
Time Series



Constituent: Chromium Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

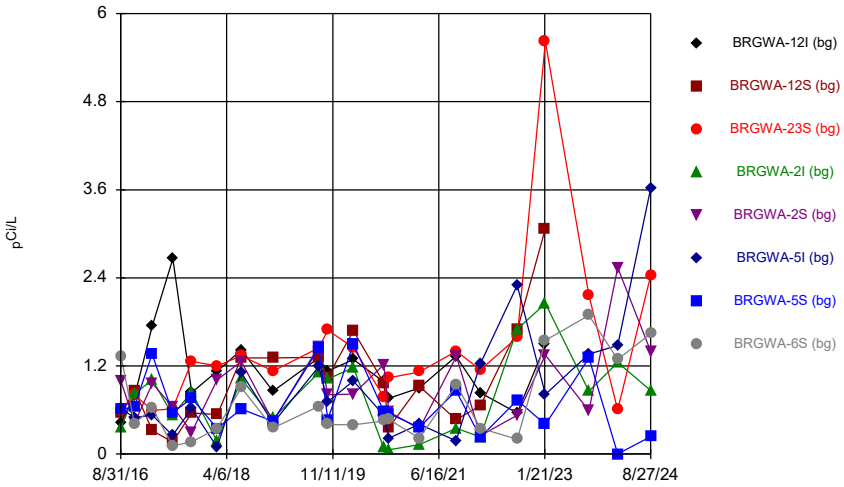
Time Series



Constituent: Cobalt Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

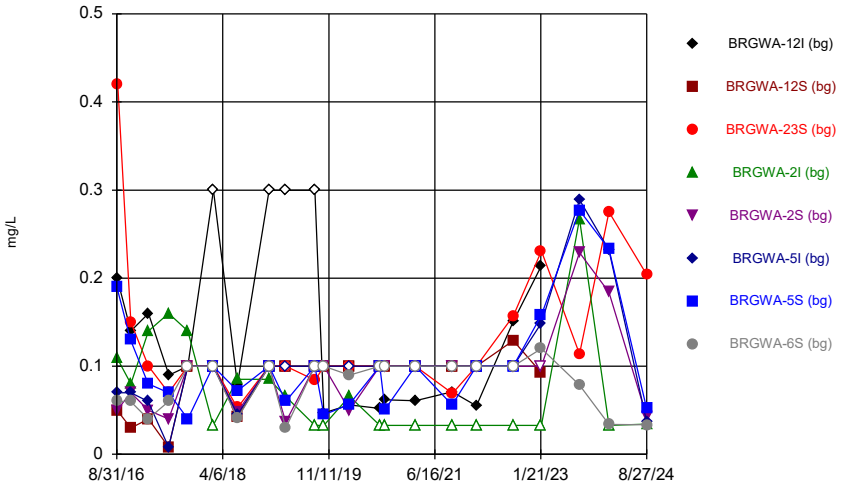
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

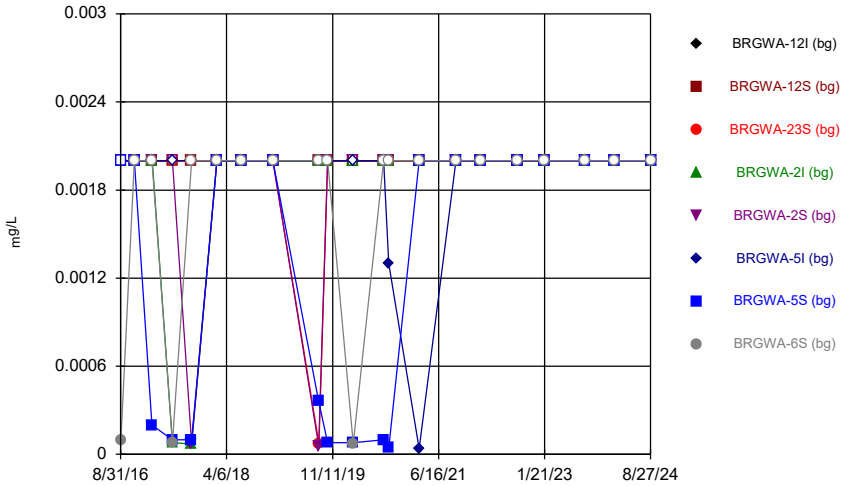
Time Series



Constituent: Fluoride Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

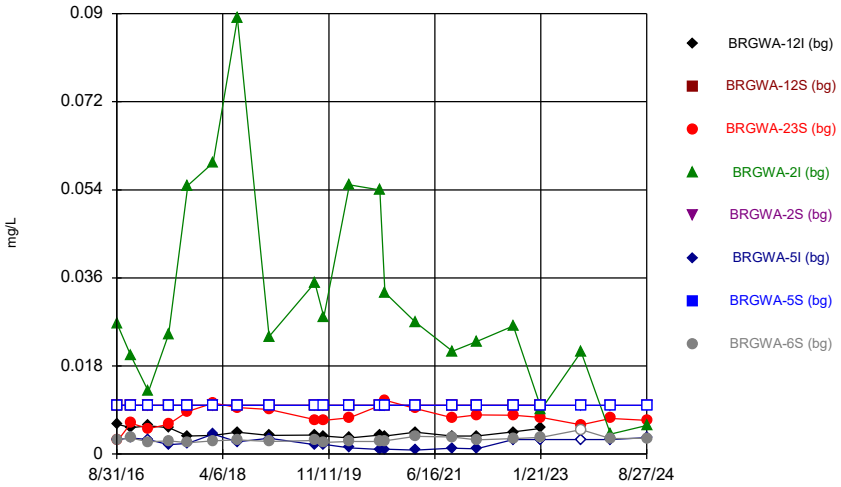
Time Series



Constituent: Lead Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

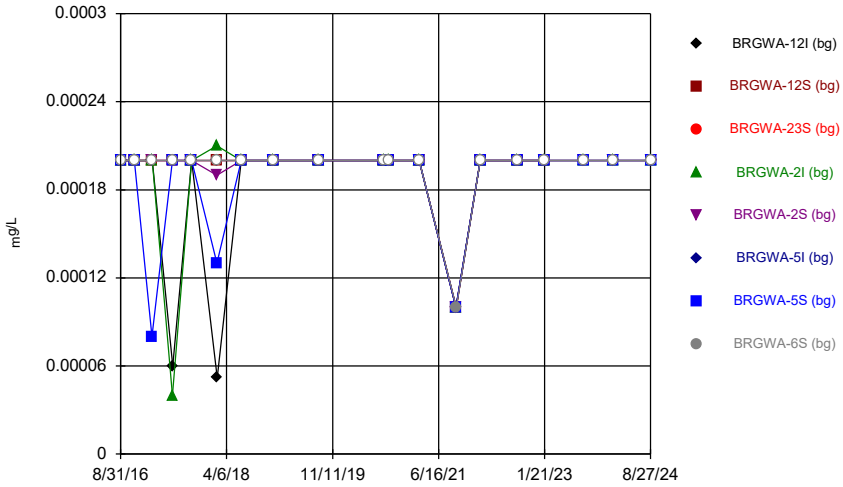
Time Series



Constituent: Lithium Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

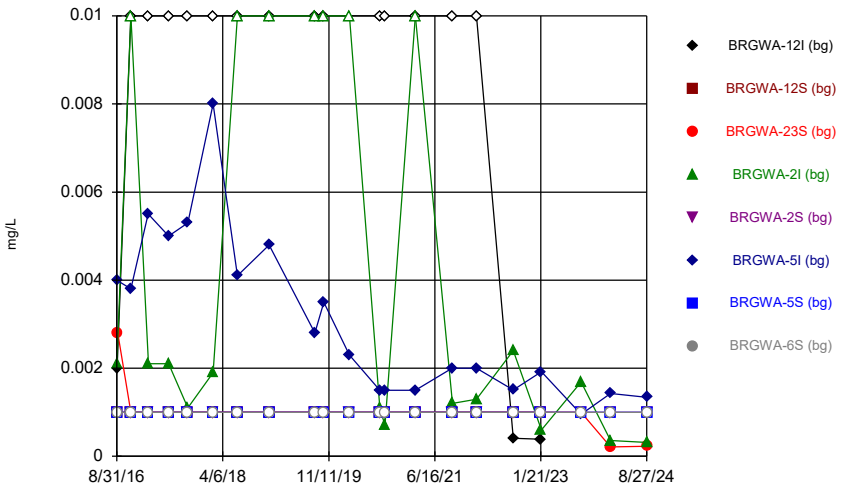
Time Series



Constituent: Mercury Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

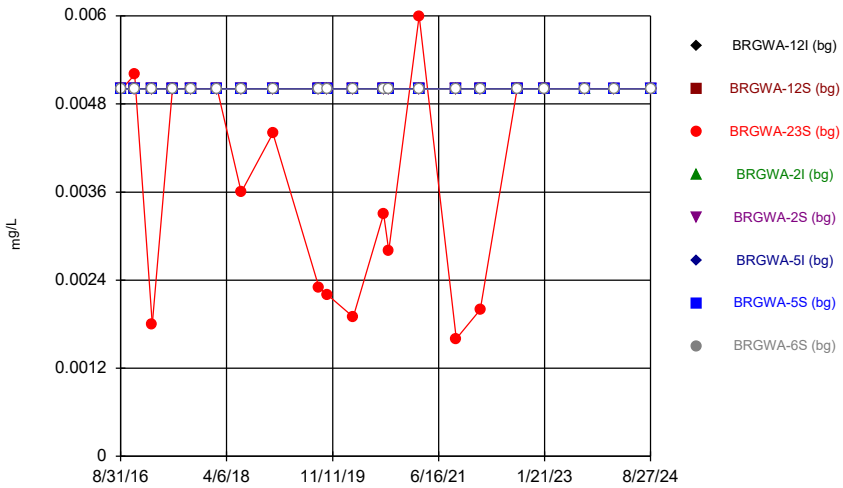
Time Series



Constituent: Molybdenum Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

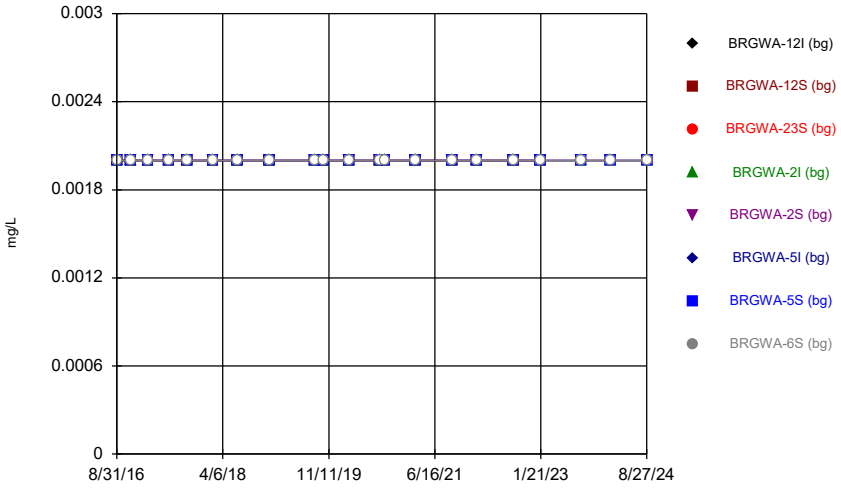
Time Series



Constituent: Selenium Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

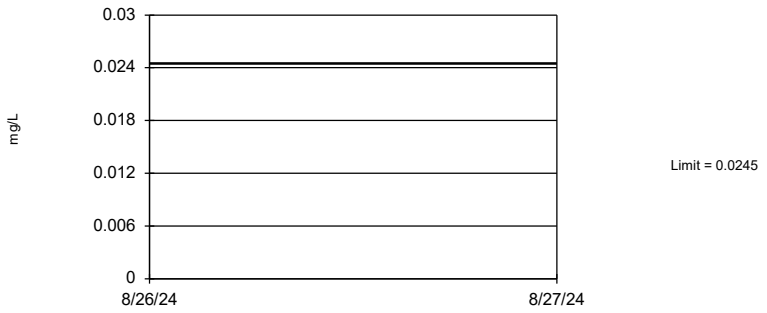


Constituent: Thallium Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 162 background values. 84.57% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Antimony Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



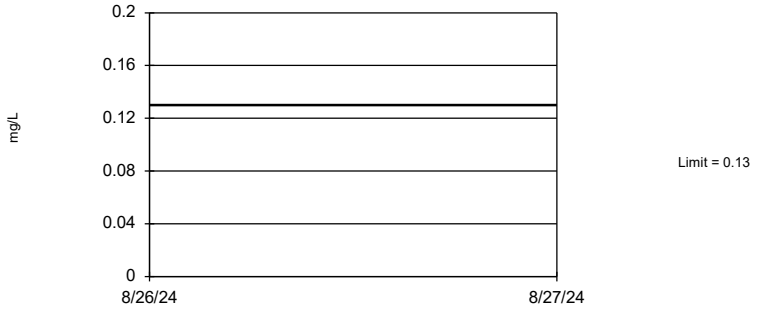
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 162 background values. 78.4% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Arsenic Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



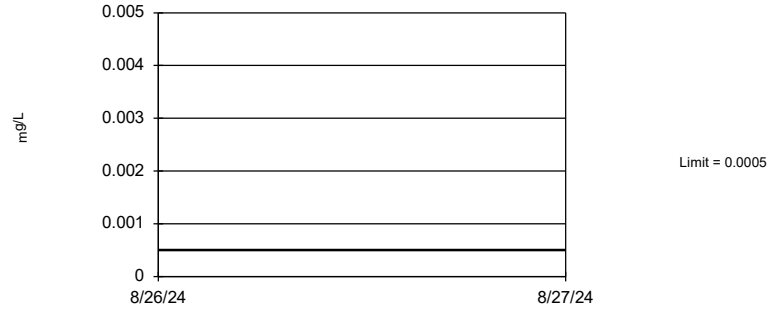
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 162 background values. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Barium Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



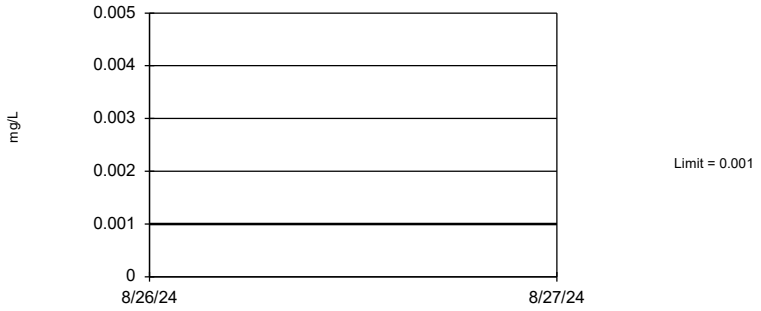
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Beryllium Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 164 background values. 98.78% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002222.

Constituent: Cadmium Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



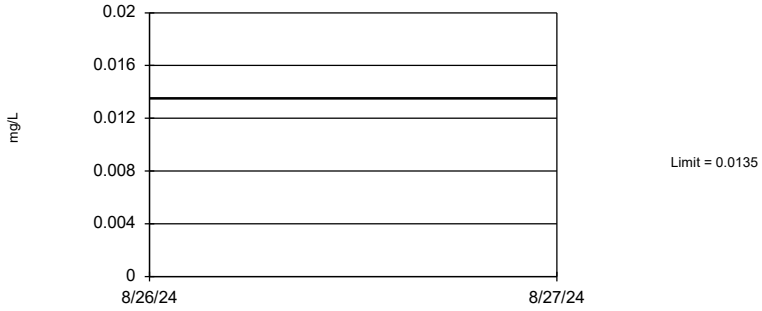
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 162 background values. 21.6% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Chromium Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



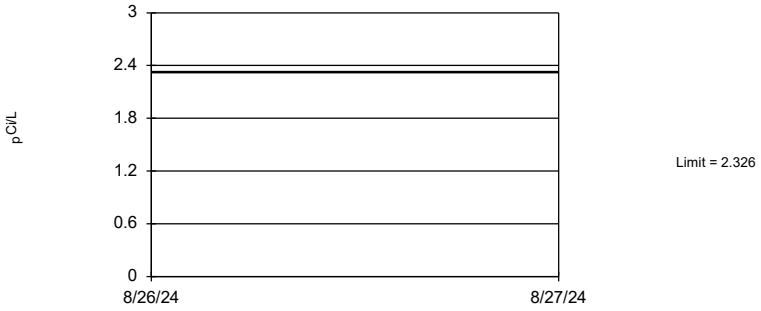
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 162 background values. 54.94% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Cobalt Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Parametric



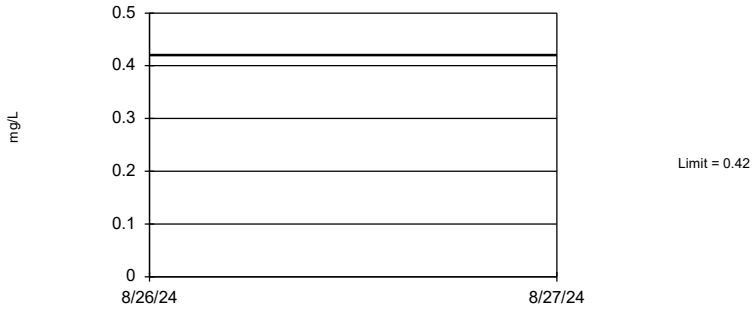
95% coverage. Background Data Summary (based on square root transformation): Mean=0.9094, Std. Dev.=0.3312, n=162. Normality test: Chi Squared @alpha = 0.01, calculated = 10.59, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix
Plant Branch Client: Southern Company Data: Plant Branch AP

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Tolerance Limit

Interwell Non-parametric



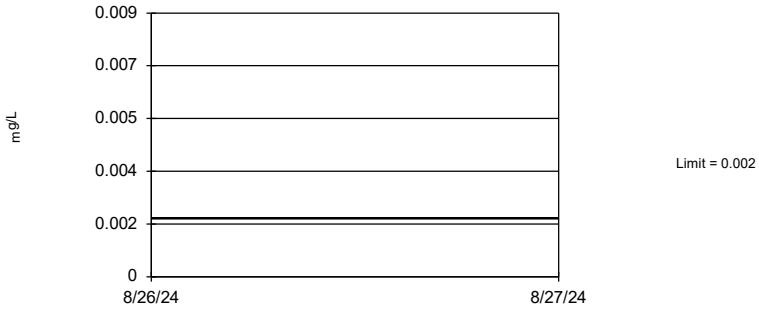
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 170 background values. 47.06% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0001633.

Constituent: Fluoride Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

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Tolerance Limit

Interwell Non-parametric



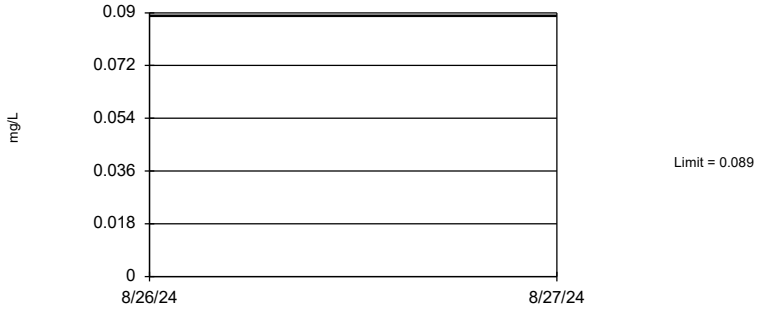
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 162 background values. 88.89% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Lead Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

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Tolerance Limit

Interwell Non-parametric



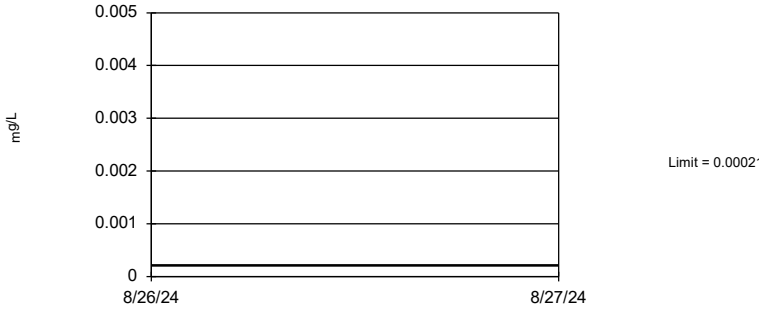
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 162 background values. 41.36% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Lithium Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 146 background values. 89.73% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005593.

Constituent: Mercury Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 159 background values. 74.21% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002871.

Constituent: Molybdenum Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

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Tolerance Limit

Interwell Non-parametric



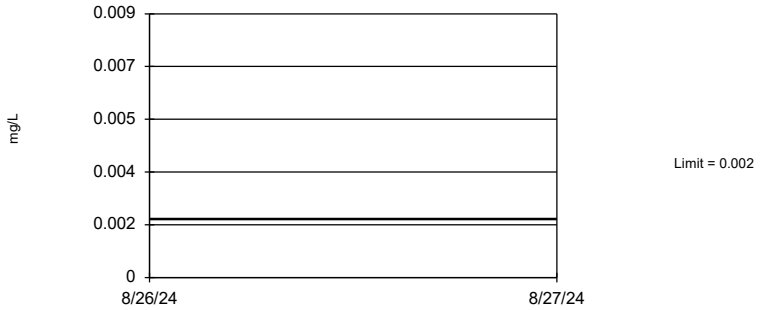
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 162 background values. 92.59% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Selenium Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Thallium Analysis Run 11/18/2024 10:22 AM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	<0.003	0.0009 (J)	<0.003	<0.003				
9/1/2016					<0.003	0.0015 (J)	<0.003	
9/6/2016								<0.003
11/15/2016				<0.003			<0.003	
11/16/2016	<0.003	<0.003	<0.003		0.0011 (J)	<0.003		
11/17/2016								<0.003
2/20/2017	<0.003			<0.003			<0.003	
2/21/2017		<0.003	<0.003		<0.003	<0.003		<0.003
6/12/2017	<0.003	<0.003		<0.003			<0.003	
6/13/2017			0.0011 (J)		0.0009 (J)			<0.003
6/14/2017						0.0014 (J)		
9/26/2017	<0.003	<0.003	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003
2/13/2018	<0.003	<0.003	<0.003	<0.003			<0.003	
2/14/2018					<0.003	<0.003		<0.003
6/26/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002 (J)
12/18/2018	<0.003	<0.003	<0.003	0.00087 (J)	<0.003	0.009	<0.003	<0.003
8/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	0.0072	<0.003	
8/29/2019								<0.003
10/15/2019	<0.003	0.00047 (J)	<0.003	<0.003	<0.003	0.012	<0.003	<0.003
3/3/2020	<0.003	<0.003	<0.003	<0.003	<0.003	0.0063	<0.003	
3/4/2020								<0.003
8/18/2020	<0.003	0.00054 (J)	0.00042 (J)	0.0016 (J)	<0.003	0.0067	<0.003	<0.003
9/15/2020	<0.003	<0.003	<0.003	<0.003	<0.003	0.01	<0.003	0.00033 (J)
3/1/2021		<0.003					<0.003	
3/2/2021	<0.003		<0.003	<0.003	<0.003	0.0095		<0.003
9/21/2021	<0.003			<0.003	<0.003	0.017		
9/22/2021		<0.003	<0.003				<0.003	<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003	<0.003	0.011	<0.003	<0.003
8/23/2022	<0.003	<0.003	<0.003	<0.003	<0.003	0.0241	<0.003	<0.003
1/24/2023	<0.003	<0.003	<0.003	<0.003	<0.003	0.0245	<0.003	<0.003
8/31/2023	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003
2/10/2024	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003
8/27/2024	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016					<0.005	<0.005	<0.005	
9/6/2016								<0.005
11/15/2016				<0.005			<0.005	
11/16/2016	<0.005	<0.005	<0.005		<0.005	<0.005		
11/17/2016								<0.005
2/20/2017	<0.005			<0.005			<0.005	
2/21/2017		<0.005	<0.005		<0.005	<0.005		<0.005
6/12/2017	0.0007 (J)	0.0007 (J)		0.0006 (J)			<0.005	
6/13/2017			<0.005		<0.005			0.0008 (J)
6/14/2017						0.0009 (J)		
9/26/2017	0.0009 (J)	0.001 (J)	<0.005	0.0007 (J)	0.0006 (J)	0.0012 (J)	0.0007 (J)	0.0012 (J)
2/13/2018	<0.005	<0.005	<0.005	<0.005			<0.005	
2/14/2018					<0.005	<0.005		0.0007 (J)
6/26/2018	<0.005	0.00062 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	0.00062 (J)
12/18/2018	<0.005 (X)	<0.005	<0.005 (X)	<0.005 (X)	<0.005	<0.005	<0.005 (X)	<0.005
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/29/2019								<0.005
10/15/2019	0.00058 (J)	0.0008 (J)	0.00063 (J)	0.00039 (J)	0.00046 (J)	0.00088 (J)	<0.005	0.00075 (J)
3/3/2020	0.0024 (J)	0.0027 (J)	0.00098 (J)	0.0027 (J)	0.0015 (J)	0.0023 (J)	0.0018 (J)	
3/4/2020								<0.005
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021		<0.005					<0.005	
3/2/2021	<0.005		<0.005	<0.005	<0.005	<0.005		<0.005
9/21/2021	<0.005			<0.005	<0.005	<0.005		
9/22/2021		<0.005	<0.005				<0.005	<0.005
2/1/2022	0.0013 (J)	0.0012 (J)	<0.005	0.0012 (J)	<0.005	0.0017 (J)	<0.005	0.0018 (J)
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)	<0.005
8/31/2023	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
2/10/2024	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
8/27/2024	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	0.0273	0.0239	0.0099 (J)	0.0495				
9/1/2016					0.0528	0.0454	0.0142	
9/6/2016								0.0624
11/15/2016				0.0512			0.0126	
11/16/2016	0.0365	0.0147	0.0102		0.0509	0.0623		
11/17/2016								0.109
2/20/2017	0.0336			0.0586			0.0142	
2/21/2017		0.0109	0.0094 (J)		0.0531	0.0644		0.095
6/12/2017	0.0322	0.0094 (J)		0.0567			0.0134	
6/13/2017			0.0094 (J)		0.0543			0.0861
6/14/2017						0.0726		
9/26/2017	0.0364	0.0156	0.0096 (J)	0.0586	0.0547	0.0765	0.0133	0.104
2/13/2018	0.054	0.0134	0.0102	0.054			0.0145	
2/14/2018					0.0603	0.0786		0.129
6/26/2018	0.032	0.014	0.0093 (J)	0.063	0.059	0.063	0.014	0.13
12/18/2018	0.038	0.0076 (J)	0.01	0.045	0.056	0.067	0.013	0.13
8/27/2019	0.028	0.012	0.0095 (J)	0.056	0.057	0.058	0.013	
8/29/2019								0.076
10/15/2019	0.032	0.013	0.0091 (J)	0.049	0.053	0.06	0.013	0.069
3/3/2020	0.028	0.017	0.011	0.051	0.06	0.076	0.019	
3/4/2020								0.087
8/18/2020	0.022	0.01 (J)	0.01	0.04	0.058	0.053	0.014	0.067
9/15/2020	0.022	0.0083 (J)	0.0094 (J)	0.038	0.058	0.059	0.013	0.086
3/1/2021		0.0074					0.016	
3/2/2021	0.023		0.0094	0.037	0.063	0.053		0.097
9/21/2021	0.025			0.038	0.06	0.074		
9/22/2021		0.0075	0.0097				0.014	0.07
2/1/2022	0.028	0.0066	0.01	0.04	0.064	0.057	0.014	0.08
8/23/2022	0.0241	0.00954	0.012	0.0379	0.0607	0.0602	0.014	0.0573
1/24/2023	0.0303	0.00453	0.0118	0.0394	0.0576	0.0512	0.0132	0.0468
8/31/2023	0.0245	0.0068	0.0135	0.0352			0.0143	0.0434
2/10/2024	0.0296	0.0124	0.0137	0.0396			0.0151	0.0431
8/27/2024	0.0314	0.00493	0.0132	0.0362			0.0159	0.0432

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	<0.0005	<0.0005	<0.0005	<0.0005				
9/1/2016					<0.0005	<0.0005	<0.0005	
9/6/2016								<0.0005
11/15/2016				<0.0005			<0.0005	
11/16/2016	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		
11/17/2016								<0.0005
2/20/2017	<0.0005			<0.0005			<0.0005	
2/21/2017		<0.0005	<0.0005		<0.0005	<0.0005		<0.0005
6/12/2017	<0.0005	<0.0005		<0.0005			<0.0005	
6/13/2017			<0.0005		<0.0005			<0.0005
6/14/2017						<0.0005		
9/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/13/2018	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	
2/14/2018					<0.0005	<0.0005		<0.0005
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/29/2019								<0.0005
10/15/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/3/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/4/2020								<0.0005
8/18/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/15/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/1/2021		<0.0005					<0.0005	
3/2/2021	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
9/21/2021	<0.0005			<0.0005	<0.0005	<0.0005		
9/22/2021		<0.0005	<0.0005				<0.0005	<0.0005
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2023	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005
2/10/2024	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005
8/27/2024	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)
8/31/2016	<0.001	<0.001	<0.001	<0.001				
9/1/2016					<0.001	<0.001	<0.001	
9/6/2016								<0.001
11/15/2016	<0.001					<0.001		
11/16/2016		<0.001	<0.001	<0.001	<0.001		<0.001	
11/17/2016								<0.001
2/20/2017	<0.001	<0.001				<0.001		
2/21/2017			<0.001	<0.001	<0.001		<0.001	<0.001
6/12/2017	<0.001	<0.001		<0.001		<0.001		
6/13/2017			<0.001				<0.001	<0.001
6/14/2017					<0.001			
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2018	<0.001	<0.001	<0.001	<0.001		<0.001		
2/14/2018					<0.001		<0.001	<0.001
6/26/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00015 (J)
7/31/2018					<0.001		<0.001	
12/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
8/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/29/2019								<0.001
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/3/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
3/4/2020								<0.001
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2021				<0.001		<0.001		
3/2/2021	<0.001	<0.001	<0.001		<0.001		<0.001	<0.001
9/21/2021	<0.001	<0.001			<0.001		<0.001	
9/22/2021			<0.001	<0.001		<0.001		<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023	<0.001	<0.001	<0.001	<0.001		<0.001		<0.001
2/10/2024	<0.001	<0.001	<0.001	<0.001		<0.001		<0.001
8/27/2024	<0.001	<0.001	<0.001	<0.001		<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	0.0058 (J)	0.001 (J)	0.0034 (J)	0.0028 (J)				
9/1/2016					0.0013 (J)	0.0009 (J)	0.0147	
9/6/2016								<0.01
11/15/2016				0.003 (J)			0.0154 (B)	
11/16/2016	0.0051 (J)	<0.01	0.0029 (J)		0.0012 (J)	0.0015 (J)		
11/17/2016								<0.01
2/20/2017	0.0049 (J)			0.0047 (J)			0.014	
2/21/2017		<0.01	0.0036 (J)		0.0017 (J)	0.001 (J)		<0.01
6/12/2017	0.0052 (J)	0.0005 (J)		0.0041 (J)			0.016	
6/13/2017			0.0038 (J)		0.0019 (J)			<0.01
6/14/2017						0.0012 (J)		
9/26/2017	0.0039 (J)	0.0005 (J)	0.0045 (J)	0.0037 (J)	0.0018 (J)	0.0014 (J)	0.0144	<0.01
2/13/2018	<0.01	<0.01	<0.01	<0.01			0.0144	
2/14/2018					<0.01	<0.01		<0.01
6/26/2018	0.0053 (J)	<0.01	0.008 (J)	0.0043 (J)	0.0022 (J)	<0.01	0.015	<0.01
12/18/2018	0.0032 (J)	<0.01	0.012	0.0054 (J)	0.0022 (J)	0.0016 (J)	0.015	<0.01
8/27/2019	0.0055 (J)	0.0004 (J)	0.0083 (J)	0.0043 (J)	0.0024 (J)	0.0023 (J)	0.015	
8/29/2019								0.0016 (J)
10/15/2019	0.0047 (J)	<0.01	0.0083 (J)	0.0055 (J)	0.0023 (J)	0.0021 (J)	0.014	0.0017 (J)
3/3/2020	0.0069 (J)	0.00047 (J)	0.0098 (J)	0.0057 (J)	0.0028 (J)	0.0026 (J)	0.011	
3/4/2020								0.0019 (J)
8/18/2020	0.0069 (J)	0.00096 (J)	0.0085 (J)	0.005 (J)	0.0029 (J)	0.0023 (J)	0.015	0.0017 (J)
9/15/2020	0.0069 (J)	<0.01	0.0082 (J)	0.0048 (J)	0.0025 (J)	0.00096 (J)	0.014	0.0019 (J)
3/1/2021		<0.01					0.011	
3/2/2021	0.0064		0.0074	0.0044 (J)	0.0021 (J)	0.002 (J)		0.002 (J)
9/21/2021	0.0064			0.0044 (J)	0.0024 (J)	0.0023 (J)		
9/22/2021		<0.01	0.0091				0.014	0.0026 (J)
2/1/2022	0.0066	0.0013 (J)	0.0092	0.0052	0.0029 (J)	0.0027 (J)	0.015	0.0028 (J)
8/23/2022	0.00647 (J)	<0.01	0.00908 (J)	0.00435 (J)	<0.01	<0.01	0.0143	<0.01
1/24/2023	0.00513 (J)	<0.01	0.0095 (J)	0.00572 (J)	<0.01	<0.01	0.0139	<0.01
8/31/2023	0.00701 (J)	<0.01	0.00921 (J)	0.00472 (J)			0.0132	<0.01
2/10/2024	0.00551 (J)	0.00458 (J)	0.00854 (J)	0.00582 (J)			0.0139	<0.01
8/27/2024	0.00521 (J)	0.00445 (J)	0.00799 (J)	0.00604 (J)			0.0124	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)
8/31/2016	0.0034 (J)	<0.001	0.0013 (J)	0.0016 (J)				
9/1/2016					<0.001	<0.001	<0.001	
9/6/2016								0.0028 (J)
11/15/2016		<0.001			<0.001			
11/16/2016	0.003 (J)		<0.01 (o)	0.0006 (J)		<0.001	<0.001	
11/17/2016								0.0072 (J)
2/20/2017		0.0009 (J)	0.0012 (J)		<0.001			
2/21/2017	0.0028 (J)			<0.001		<0.001	<0.001	0.0045 (J)
6/12/2017		0.0006 (J)	0.0011 (J)	<0.001	0.0003 (J)			
6/13/2017	0.0025 (J)					<0.001		0.0036 (J)
6/14/2017							<0.001	
9/26/2017	0.002 (J)	0.0005 (J)	0.0016 (J)	<0.001	0.0003 (J)	<0.001	<0.001	0.0037 (J)
2/13/2018	<0.001	<0.001	<0.01 (o)	<0.001	<0.001			
2/14/2018						<0.001	<0.001	0.0135
6/26/2018	0.0019 (J)	0.00052 (J)	0.0009 (J)	<0.001	<0.001	<0.001	<0.001	0.0098 (J)
7/31/2018						<0.001	<0.001	
12/18/2018	0.0032 (J)	<0.001	0.00062 (J)	<0.001	<0.001	<0.001	<0.001	0.0057 (J)
8/27/2019	0.0012 (J)	0.00042 (J)	0.00068 (J)	<0.001	<0.001	<0.001	<0.001	
8/29/2019								0.0015 (J)
10/15/2019	0.00097 (J)	<0.001	0.00083 (J)	<0.001	<0.001	<0.001	<0.001	0.0011 (J)
3/3/2020	0.0015 (J)	<0.001	0.00043 (J)	<0.001	0.0011 (J)	<0.001	<0.001	
3/4/2020								0.0012 (J)
8/18/2020	0.0014 (J)	<0.001	0.00048 (J)	<0.001	0.00061 (J)	<0.001	<0.001	0.00067 (J)
9/15/2020	0.001 (J)	<0.001	0.0005 (J)	<0.001	<0.001	<0.001	<0.001	0.00076 (J)
3/1/2021				<0.001	<0.001			
3/2/2021	0.001 (J)	<0.001	0.00053 (J)			<0.001	<0.001	<0.001
9/21/2021		<0.001	0.00071 (J)			<0.001	<0.001	
9/22/2021	<0.001			0.0015 (J)	0.00078 (J)			<0.001
2/1/2022	0.0011 (J)	<0.001	0.0007 (J)	0.00079 (J)	<0.001	<0.001	<0.001	0.00052 (J)
8/23/2022	0.000844 (J)	<0.001	0.000553 (J)	0.000767 (J)	<0.001	<0.001	<0.001	0.000308 (J)
1/24/2023	0.000829 (J)	<0.001	0.000677 (J)	0.00154	<0.001	<0.001	<0.001	<0.001
8/31/2023	0.000707 (J)	0.000327 (J)	0.000474 (J)	0.000707 (J)	<0.001			<0.001
2/10/2024	0.000962 (J)	<0.001	0.000555 (J)	0.0014	<0.001			<0.001
8/27/2024	0.000772 (J)	<0.001	0.000396 (J)	0.00105	<0.001			<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	0.62 (U)	0.351 (U)	1 (U)	0.603 (U)				
9/1/2016					0.566 (U)	0.428 (U)	1.33	
9/6/2016								0.585 (U)
11/15/2016				0.645 (U)			0.412 (U)	
11/16/2016	0.493 (U)	0.824 (U)	0.43 (U)		0.863 (U)	0.799 (U)		
11/17/2016								0.804 (U)
2/20/2017	0.534 (U)			1.36			0.633 (U)	
2/21/2017		1.01 (U)	0.96 (U)		0.318 (U)	1.75 (U)		0.595 (U)
6/12/2017	0.254 (U)	0.532 (U)		0.566 (U)			0.112 (U)	
6/13/2017			0.645 (U)		0.163 (U)			0.618 (U)
6/14/2017						2.66		
9/26/2017	0.62 (U)	0.845 (U)	0.299 (U)	0.762 (U)	0.56 (U)	0.841 (U)	0.167 (U)	1.26 (U)
2/13/2018	0.0914 (U)	0.176 (U)	1.01 (U)	0.349 (U)			0.347 (U)	
2/14/2018					0.537 (U)	1.13 (UX)		1.2 (U)
6/26/2018	1.11 (U)	1.02 (U)	1.26 (J+X)	0.614 (U)	1.31 (UX)	1.42 (J+X)	0.903 (U)	1.34 (U)
12/18/2018	0.42 (U)	0.487 (U)	0.44 (U)	0.445 (U)	1.31 (J+X)	0.855 (U)	0.353 (U)	1.13 (U)
8/27/2019	1.19	1.11	1.47	1.44	1.32	1.31	0.65 (U)	
8/29/2019								1.45 (U)
10/15/2019	0.714 (U)	1.02 (U)	0.807 (U)	0.467 (U)	1.05 (U)	1.13 (U)	0.402 (U)	1.69
3/3/2020	0.996 (U)	1.18 (U)	0.818 (U)	1.5	1.68	1.29 (U)	0.397 (U)	
3/4/2020								1.45
8/18/2020	0.53 (U)	0.0861 (U)	1.22 (U)	0.581 (U)	0.969 (U)	0.988 (U)	0.453 (U)	0.784 (U)
9/15/2020	0.215 (U)	0.0583 (U)	0.579 (U)	0.55 (U)	0.359 (U)	0.762 (U)	0.474 (U)	1.04 (U)
3/1/2021		0.127 (U)					0.215 (U)	
3/2/2021	0.409 (U)		0.342 (U)	0.362 (U)	0.925	0.901		1.12
9/21/2021	0.182 (U)			0.86 (U)	0.468 (U)	1.33		
9/22/2021		0.349 (U)	1.33 (U)				0.943 (U)	1.4
2/1/2022	1.23	0.233 (U)	0.251 (U)	0.23 (U)	0.659 (U)	0.833 (U)	0.349 (U)	1.15
8/23/2022	2.3	1.7	0.531	0.735	1.69	0.558	0.203	1.59
1/24/2023	0.811 (U)	2.05 (U)	1.35 (U)	0.402 (U)	3.07	1.49 (U)	1.55 (U)	5.62
9/22/2023	1.36	0.857 (U)	0.592 (U)	1.31 (U)			1.89 (U)	2.16
2/27/2024	1.48 (U)	1.25	2.54	0 (U)			1.29	0.605 (U)
8/27/2024	3.62	0.864 (U)	1.4 (U)	0.236 (U)			1.64	2.43

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	0.07 (J)	0.11 (J)	0.05 (J)	0.19 (J)				
9/1/2016					0.05 (J)	0.2 (J)	0.06 (J)	
9/6/2016								0.42
11/15/2016				0.13 (J)			0.06 (J)	
11/16/2016	0.07 (J)	0.08 (J)	0.07 (J)		0.03 (J)	0.14 (J)		
11/17/2016								0.15 (J)
2/20/2017	0.06 (J)			0.08 (J)			0.04 (J)	
2/21/2017		0.14 (J)	0.05 (J)		0.04 (J)	0.16 (J)		0.1 (J)
6/12/2017	0.008 (J)	0.16 (J)		0.07 (J)			0.06 (J)	
6/13/2017			0.04 (J)		0.008 (J)			0.07 (J)
6/14/2017						0.09 (J)		
9/26/2017	<0.033	0.14 (J)	<0.033	0.04 (J)	<0.033	0.1 (J)	<0.033	<0.033
2/13/2018	<0.033	<0.033	<0.033	<0.033			<0.033	
2/14/2018					<0.033	<0.033		<0.033
6/26/2018	0.045 (J)	0.085 (J)	0.048 (J)	0.072 (J)	0.042 (J)	0.079 (J)	0.041 (J)	0.053 (J)
12/18/2018	<0.033	0.085 (J)	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
3/19/2019	<0.033	0.0655 (JD)	0.037 (J)	0.06 (J)	<0.033	<0.033	0.03 (J)	<0.033
8/27/2019	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	
8/29/2019								0.084 (J)
10/15/2019	<0.033	<0.033	<0.033	0.045 (J)	<0.033	0.047 (J)	<0.033	<0.033
3/3/2020	<0.033	0.066 (J)	0.05 (J)	0.057 (J)	<0.033	0.056 (J)	0.09 (J)	
3/4/2020								<0.033
8/18/2020	<0.033	<0.033	<0.033	<0.033	<0.033	0.052 (J)	<0.033	<0.033
9/15/2020	<0.033	<0.033	<0.033	0.051 (J)	<0.033	0.062 (J)	<0.033	<0.033
3/1/2021		<0.033					<0.033	
3/2/2021	<0.033		<0.033	<0.033	<0.033	0.061 (J)		<0.033
9/21/2021	<0.033			0.056 (J)	<0.033	0.071 (J)		
9/22/2021		<0.033	<0.033				<0.033	0.069 (J)
2/1/2022	<0.033	<0.033	<0.033	<0.033	<0.033	0.055 (J)	<0.033	<0.033
8/23/2022	<0.033	<0.033	<0.033	<0.033	0.129	0.151	<0.033	0.157
1/24/2023	0.149	<0.033	<0.033	0.158	0.0926 (J)	0.214	0.12	0.231
8/23/2023	0.289	0.267	0.229	0.277			0.0787 (J)	0.114
1/31/2024	0.232	<0.033	0.184	0.233			0.0341 (J)	
2/1/2024								0.275
8/27/2024	0.0365 (J)	0.0342 (J)	0.0426 (J)	0.0516 (J)			0.0334 (J)	0.204

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	<0.002	<0.002	<0.002	<0.002				
9/1/2016					<0.002	<0.002	0.0001 (J)	
9/6/2016								<0.002
11/15/2016				<0.002			<0.002	
11/16/2016	<0.002	<0.002	<0.002		<0.002	<0.002		
11/17/2016								<0.002
2/20/2017	<0.002			0.0002 (J)			<0.002	
2/21/2017		<0.002	<0.002		<0.002	<0.002		<0.002
6/12/2017	<0.002	8E-05 (J)		0.0001 (J)			8E-05 (J)	
6/13/2017			<0.002		<0.002			<0.002
6/14/2017						<0.002		
9/26/2017	<0.002	7E-05 (J)	7E-05 (J)	0.0001 (J)	<0.002	<0.002	<0.002	<0.002
2/13/2018	<0.002	<0.002	<0.002	<0.002			<0.002	
2/14/2018					<0.002	<0.002		<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	<0.002	5.8E-05 (J)	0.00036 (J)	<0.002	<0.002	<0.002	
8/29/2019								7E-05 (J)
10/15/2019	<0.002	<0.002	<0.002	7.9E-05 (J)	<0.002	<0.002	<0.002	<0.002
3/3/2020	<0.002	<0.002	<0.002	7.9E-05 (J)	<0.002	<0.002	7.3E-05 (J)	
3/4/2020								<0.002
8/18/2020	<0.002	<0.002	<0.002	0.0001 (J)	<0.002	<0.002	<0.002	<0.002
9/15/2020	0.0013 (J)	<0.002	<0.002	4.3E-05 (J)	<0.002	<0.002	<0.002	<0.002
3/1/2021		<0.002					<0.002	
3/2/2021	3.7E-05 (J)		<0.002	<0.002	<0.002	<0.002		<0.002
9/21/2021	<0.002			<0.002	<0.002	<0.002		
9/22/2021		<0.002	<0.002				<0.002	<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
2/10/2024	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
8/27/2024	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	<0.01	0.0268 (J)	<0.01	<0.01				
9/1/2016					<0.01	0.0061 (J)	0.003 (J)	
9/6/2016								0.0028 (J)
11/15/2016				<0.01			0.0033 (J)	
11/16/2016	0.0033 (J)	0.0201 (J)	<0.01		<0.01	0.0054 (J)		
11/17/2016								0.0063 (J)
2/20/2017	<0.01			<0.01			0.0025 (J)	
2/21/2017		0.0128 (J)	<0.01		<0.01	0.0058 (J)		0.0052 (J)
6/12/2017	0.0019 (J)	0.0245 (J)		<0.01			0.0027 (J)	
6/13/2017			<0.01		<0.01			0.0061 (J)
6/14/2017						0.0054 (J)		
9/26/2017	0.0022 (J)	0.0549	<0.01	<0.01	<0.01	0.0037 (J)	0.0023 (J)	0.0087 (J)
2/13/2018	0.0041 (J)	0.0595	<0.01	<0.01			0.0027 (J)	
2/14/2018					<0.01	0.0038 (J)		0.0104 (J)
6/26/2018	0.0025 (J)	0.089	<0.01	<0.01	<0.01	0.0045 (J)	0.0029 (J)	0.0095 (J)
12/18/2018	0.0032 (J)	0.024 (J)	<0.01	<0.01	<0.01	0.0038 (J)	0.0026 (J)	0.0091 (J)
8/27/2019	0.0019 (J)	0.035	<0.01	<0.01	<0.01	0.0039 (J)	0.0028 (J)	
8/29/2019								0.007 (J)
10/15/2019	0.002 (J)	0.028 (J)	<0.01	<0.01	<0.01	0.0037 (J)	0.0024 (J)	0.0069 (J)
3/3/2020	0.0013 (J)	0.055	<0.01	<0.01	<0.01	0.0033 (J)	0.0026 (J)	
3/4/2020								0.0074 (J)
8/18/2020	0.00095 (J)	0.054	<0.01	<0.01	<0.01	0.0039 (J)	0.0026 (J)	0.0099 (J)
9/15/2020	0.001 (J)	0.033	<0.01	<0.01	<0.01	0.0037 (J)	0.0027 (J)	0.011 (J)
3/1/2021		0.027 (J)					0.0036 (J)	
3/2/2021	0.00081 (J)		<0.01	<0.01	<0.01	0.0045 (J)		0.0093 (J)
9/21/2021	0.0012 (J)			<0.01	<0.01	0.0037 (J)		
9/22/2021		0.021 (J)	<0.01				0.0035 (J)	0.0074 (J)
2/1/2022	0.0011 (J)	0.023 (J)	<0.01	<0.01	<0.01	0.0037 (J)	0.0029 (J)	0.008 (J)
8/23/2022	<0.01	0.0262	<0.01	<0.01	<0.01	0.00451 (J)	0.00314 (J)	0.00792 (J)
1/24/2023	<0.01	0.00919 (J)	<0.01	<0.01	<0.01	0.00529 (J)	0.00341 (J)	0.00749 (J)
8/31/2023	<0.01	0.0209	<0.01	<0.01			<0.01	0.00596 (J)
2/10/2024	<0.01	0.00407 (J)	<0.01	<0.01			0.00317 (J)	0.00729 (J)
8/27/2024	0.00337 (J)	0.00584 (J)	<0.01	<0.01			0.00322 (J)	0.00687 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002				
9/1/2016					<0.0002	<0.0002	<0.0002	
9/6/2016								<0.0002
11/15/2016				<0.0002			<0.0002	
11/16/2016	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		
11/17/2016								<0.0002
2/20/2017	<0.0002			8E-05 (J)			<0.0002	
2/21/2017		<0.0002	<0.0002		<0.0002	<0.0002		<0.0002
6/12/2017	<0.0002	4E-05 (J)		<0.0002			<0.0002	
6/13/2017			<0.0002		<0.0002			<0.0002
6/14/2017						6E-05 (J)		
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/13/2018	<0.0002	0.00021	0.00019 (J)	0.00013 (J)			<0.0002	
2/14/2018					<0.0002	5.2E-05 (J)		<0.0002
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/29/2019								<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2021		<0.0002					<0.0002	
3/2/2021	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
9/21/2021	0.0001 (J)			0.0001 (J)	0.0001 (J)	0.0001 (J)		
9/22/2021		0.0001 (J)	0.0001 (J)				0.0001 (J)	0.0001 (J)
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2023	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002
2/2/2024	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002
8/27/2024	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)
8/31/2016	0.0021 (J)	<0.001	0.004 (J)	<0.001				
9/1/2016					0.002 (J)	<0.001	<0.001	
9/6/2016								0.0028 (J)
11/15/2016				<0.001		<0.001		
11/16/2016	<0.001	<0.001	0.0038 (J)		<0.001		<0.001	
11/17/2016								<0.001
2/20/2017			0.0055 (J)	<0.001		<0.001		
2/21/2017	0.0021 (J)	<0.001			<0.001		<0.001	<0.001
6/12/2017	0.0021 (J)		0.005 (J)	<0.001		<0.001		
6/13/2017		<0.001					<0.001	<0.001
6/14/2017					<0.001			
9/26/2017	0.0011 (J)	<0.001	0.0053 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2018	0.0019 (J)	<0.001	0.008 (J)	<0.001		<0.001		
2/14/2018					<0.001		<0.001	<0.001
6/26/2018	<0.001	<0.001	0.0041 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
12/18/2018	<0.001	<0.001	0.0048 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	<0.001	<0.001	0.0028 (J)	<0.001	<0.001	<0.001	<0.001	
8/29/2019								<0.001
10/15/2019	<0.001	<0.001	0.0035 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
3/3/2020	<0.001	<0.001	0.0023 (J)	<0.001		<0.001		
8/18/2020	0.0011 (J)	<0.001	0.0015 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2020	0.0007 (J)	<0.001	0.0015 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2021	<0.001					<0.001		
3/2/2021		<0.001	0.0015 (J)	<0.001	<0.001		<0.001	<0.001
9/21/2021			0.002 (J)	<0.001	<0.001		<0.001	
9/22/2021	0.0012 (J)	<0.001				<0.001		<0.001
2/1/2022	0.0013 (J)	<0.001	0.002 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	0.0024	<0.001	0.00151	<0.001	0.000413 (J)	<0.001	<0.001	<0.001
1/24/2023	0.000601 (J)	<0.001	0.00192	<0.001	0.000388 (J)	<0.001	<0.001	<0.001
8/31/2023	0.00169	<0.001	0.000953 (J)	<0.001		<0.001		<0.001
2/10/2024	0.000362 (J)	<0.001	0.00143	<0.001		<0.001		0.000217 (J)
8/27/2024	0.000313 (J)	<0.001	0.00134	<0.001		<0.001		0.000225 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016					<0.005	<0.005	<0.005	
9/6/2016								<0.005
11/15/2016				<0.005			<0.005	
11/16/2016	<0.005	<0.005	<0.005		<0.005	<0.005		
11/17/2016								0.0052 (J)
2/20/2017	<0.005			<0.005			<0.005	
2/21/2017		<0.005	<0.005		<0.005	<0.005		0.0018 (J)
6/12/2017	<0.005	<0.005		<0.005			<0.005	
6/13/2017			<0.005		<0.005			<0.005
6/14/2017						<0.005		
9/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2018	<0.005	<0.005	<0.005	<0.005			<0.005	
2/14/2018					<0.005	<0.005		<0.005
6/26/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0036 (J)
12/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0044 (J)
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/29/2019								0.0023 (J)
10/15/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0022 (J)
3/3/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
3/4/2020								0.0019 (J)
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0033 (J)
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0028 (J)
3/1/2021		<0.005					<0.005	
3/2/2021	<0.005		<0.005	<0.005	<0.005	<0.005		0.006
9/21/2021	<0.005			<0.005	<0.005	<0.005		
9/22/2021		<0.005	<0.005				<0.005	0.0016 (J)
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.002 (J)
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/31/2023	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
2/10/2024	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
8/27/2024	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 11/18/2024 10:24 AM View: Pond BCD Appendix IV - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-5I (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)
8/31/2016	<0.002	<0.002	<0.002	<0.002				
9/1/2016					<0.002	<0.002	<0.002	
9/6/2016								<0.002
11/15/2016				<0.002			<0.002	
11/16/2016	<0.002	<0.002	<0.002		<0.002	<0.002		
11/17/2016								<0.002
2/20/2017	<0.002			<0.002			<0.002	
2/21/2017		<0.002	<0.002		<0.002	<0.002		<0.002
6/12/2017	<0.002	<0.002		<0.002			<0.002	
6/13/2017			<0.002		<0.002			<0.002
6/14/2017						<0.002		
9/26/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/13/2018	<0.002	<0.002	<0.002	<0.002			<0.002	
2/14/2018					<0.002	<0.002		<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
8/29/2019								<0.002
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/3/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
3/4/2020								<0.002
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2021		<0.002					<0.002	
3/2/2021	<0.002		<0.002	<0.002	<0.002	<0.002		<0.002
9/21/2021	<0.002			<0.002	<0.002	<0.002		
9/22/2021		<0.002	<0.002				<0.002	<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
2/10/2024	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
8/27/2024	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

FIGURE G.

PLANT BRANCH POND BCD GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.33	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

FIGURE H.

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 1:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**PZ-63I**	**0.0348**	**0.02004**	**0.014**	**Yes**	**6**	**0.02742**	**0.005372**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**BRGWC-32S**	**0.1763**	**0.1016**	**0.05**	**Yes**	**14**	**0.139**	**0.05274**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 1:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.003	0.0007	0.006	No	21	0.00289	0.0005019	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.003	0.0013	0.006	No	21	0.002919	0.000371	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.003	0.0014	0.006	No	21	0.002924	0.0003491	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.003	0.0024	0.006	No	22	0.002547	0.0008329	68.18	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.003	0.00035	0.006	No	22	0.00288	0.000565	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.003	0.00091	0.006	No	21	0.002676	0.0008181	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-68D	0.003	0.00176	0.006	No	4	0.00269	0.00062	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.005	0.00091	0.01	No	21	0.004179	0.001736	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.005	0.0014	0.01	No	21	0.004243	0.001604	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.005	0.0016	0.01	No	21	0.003743	0.001859	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	21	0.004403	0.001313	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.005	0.00053	0.01	No	21	0.004787	0.0009754	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-44	0.005	0.00221	0.01	No	9	0.004579	0.0009479	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.005	0.00225	0.01	No	22	0.00397	0.00176	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.0023	0.001182	0.01	No	22	0.00315	0.001772	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	BRGWC-52I	0.005	0.003	0.01	No	21	0.003913	0.001424	52.38	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-68D	0.006826	0.0001393	0.01	No	4	0.004805	0.0009974	50	Kaplan-Meier	No	0.01	Param.
Barium (mg/L)	BRGWC-25I	0.03348	0.02673	2	No	21	0.0303	0.006413	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01666	0.01518	2	No	21	0.01592	0.001344	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01886	0.017	2	No	21	0.01793	0.001692	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03158	0.02415	2	No	21	0.02787	0.006739	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.03843	0.02484	2	No	21	0.03163	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-44	0.05462	0.04867	2	No	9	0.05164	0.003081	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.08892	0.06937	2	No	22	0.07915	0.01821	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.04055	0.03182	2	No	22	0.03618	0.008132	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02848	0.0183	2	No	21	0.02339	0.009232	0	None	No	0.01	Param.
Barium (mg/L)	PZ-68D	0.1715	0.03694	2	No	4	0.1042	0.02964	0	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-27I	0.0005	0.00011	0.004	No	22	0.0002834	0.0001885	40.91	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.001094	0.0008358	0.004	No	21	0.0009651	0.0002344	4.762	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0005	0.000079	0.004	No	23	0.000462	0.0001261	91.3	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0005	0.000056	0.004	No	22	0.000439	0.0001571	86.36	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-27I	0.001	0.00009	0.005	No	22	0.0009164	0.0002707	90.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.001	0.00014	0.005	No	22	0.0009191	0.000262	90.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-32S	0.001	0.00011	0.005	No	22	0.0008768	0.0003173	86.36	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.001	0.0002	0.005	No	23	0.0008499	0.0003349	82.61	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.001	0.00017	0.005	No	22	0.0006241	0.0004222	54.55	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-25I	0.01	0.0016	0.1	No	21	0.00917	0.002622	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-27I	0.01	0.003	0.1	No	21	0.009238	0.002427	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-29I	0.02	0.01	0.1	No	21	0.01048	0.002182	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-30I	0.014	0.0051	0.1	No	21	0.009957	0.001414	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.01	0.0014	0.1	No	21	0.005652	0.004263	47.62	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.01	0.0014	0.1	No	22	0.00877	0.003172	86.36	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.01	0.0018	0.1	No	22	0.00837	0.003545	81.82	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-52I	0.01	0.0017	0.1	No	21	0.009605	0.001811	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-25I	0.005785	0.003608	0.014	No	21	0.004832	0.002109	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-27I	0.009934	0.007147	0.014	No	22	0.008541	0.002596	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-29I	0.009419	0.006747	0.014	No	21	0.008083	0.002422	4.762	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-30I	0.00163	0.001	0.014	No	22	0.0038	0.006598	13.64	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.0025	0.001	0.014	No	22	0.001068	0.0003198	90.91	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-44	0.001	0.000408	0.014	No	9	0.0009342	0.0001973	88.89	Kaplan-Meier	No	0.002	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01111	0.004672	0.014	No	23	0.0106	0.01364	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.001434	0.000455	0.014	No	22	0.001933	0.00284	31.82	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-52I	0.0012	0.00063	0.014	No	21	0.001249	0.0009195	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	**PZ-63I**	**0.0348**	**0.02004**	**0.014**	**Yes**	**6**	**0.02742**	**0.005372**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-68D	0.001315	0.0003166	0.014	No	4	0.0008158	0.0002199	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-25I	2.104	0.7511	5	No	21	1.609	1.542	0	None	sqrt(x)	0.01	Param.

Confidence Intervals Summary Table - All Results

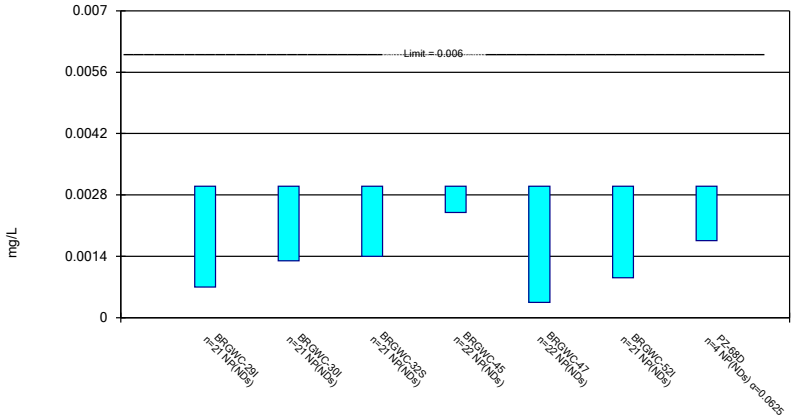
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 1:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BRGWC-27I	1.671	0.7732	5	No	21	1.222	0.8135	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-29I	1.999	1.309	5	No	21	1.654	0.6257	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-30I	1.901	0.7981	5	No	21	1.475	1.145	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.257	0.5561	5	No	21	0.9067	0.6356	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-44	2.315	0.3329	5	No	9	1.322	1.135	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	0.9907	0.4847	5	No	22	0.7377	0.4713	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.93	0.9463	5	No	22	1.438	0.916	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-52I	3.627	1.662	5	No	21	3.263	3.193	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-68D	5.43	1.62	5	No	4	3.343	1.769	0	None	No	0.0625	NP (selected)
Fluoride (mg/L)	BRGWC-25I	0.245	0.151	4	No	22	0.2144	0.1206	4.545	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-27I	0.2674	0.1768	4	No	22	0.2221	0.08435	9.091	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-29I	0.186	0.09624	4	No	22	0.1628	0.1143	9.091	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-30I	0.3169	0.1458	4	No	22	0.2503	0.1968	4.545	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.09	4	No	22	0.1057	0.04431	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-44	0.2142	0.09695	4	No	9	0.1877	0.08533	22.22	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BRGWC-45	0.163	0.078	4	No	23	0.1697	0.2103	43.48	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.2194	0.09107	4	No	23	0.2654	0.2163	47.83	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-52I	0.2194	0.1376	4	No	21	0.1785	0.07413	4.762	None	No	0.01	Param.
Fluoride (mg/L)	PZ-68D	0.2776	0.08289	4	No	4	0.1803	0.04288	0	None	No	0.01	Param.
Lead (mg/L)	BRGWC-25I	0.002	0.00011	0.015	No	21	0.00191	0.0004124	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.002	0.000063	0.015	No	21	0.001908	0.0004227	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.002	0.0003	0.015	No	20	0.0009455	0.0007996	35	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-30I	0.002	0.00011	0.015	No	21	0.00191	0.0004124	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.002	0.000595	0.015	No	22	0.001687	0.0006847	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.002	0.00012	0.015	No	22	0.001738	0.0006752	86.36	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.002	0.000042	0.015	No	21	0.001907	0.0004273	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-68D	0.002	0.000504	0.015	No	4	0.001626	0.000748	75	None	No	0.0625	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.01	0.0014	0.089	No	21	0.004324	0.004119	33.33	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-29I	0.003547	0.003078	0.089	No	21	0.003312	0.0004253	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.02116	0.01379	0.089	No	21	0.01748	0.006679	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.00514	0.0021	0.089	No	21	0.005127	0.006762	9.524	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-44	0.006541	0.004827	0.089	No	9	0.005684	0.0008877	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-45	0.0043	0.003	0.089	No	21	0.004506	0.002767	19.05	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-47	0.04572	0.04152	0.089	No	22	0.04362	0.003917	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.01004	0.004285	0.089	No	21	0.007803	0.006125	4.762	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	PZ-68D	0.01096	0.001513	0.089	No	4	0.006238	0.002081	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.0002	0.000083	0.002	No	19	0.0001854	0.00004425	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.0002	0.00005	0.002	No	19	0.0001841	0.00004777	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.00078	0.000098	0.002	No	19	0.0002099	0.0001467	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.0002	0.000082	0.002	No	19	0.0001785	0.00005146	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.0002	0.0001	0.002	No	19	0.0001827	0.00004107	84.21	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.001	0.1	No	20	0.00553	0.004588	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BRGWC-27I	0.001	0.000213	0.1	No	20	0.0009212	0.0002425	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.00123	0.1	No	20	0.006085	0.004448	55	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.000207	0.0002	0.1	No	21	0.0002615	0.0001462	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	21	0.007685	0.004243	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.0007	0.1	No	20	0.004976	0.004179	35	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-68D	0.0134	0.003249	0.1	No	4	0.007588	0.002383	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-25I	0.005	0.0021	0.05	No	21	0.004862	0.0006328	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.005	0.0031	0.05	No	21	0.004062	0.001209	47.62	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0042	0.05	No	21	0.004733	0.001331	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.005	0.0045	0.05	No	21	0.00469	0.0007899	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	**BRGWC-32S**	**0.1763**	**0.1016**	**0.05**	**Yes**	**14**	**0.139**	**0.05274**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	BRGWC-45	0.005	0.0029	0.05	No	22	0.004905	0.0004477	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.005	0.0028	0.05	No	22	0.004164	0.001417	72.73	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-29I	0.002	0.00017	0.002	No	21	0.0008724	0.0009065	38.1	None	No	0.01	NP (normality)

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

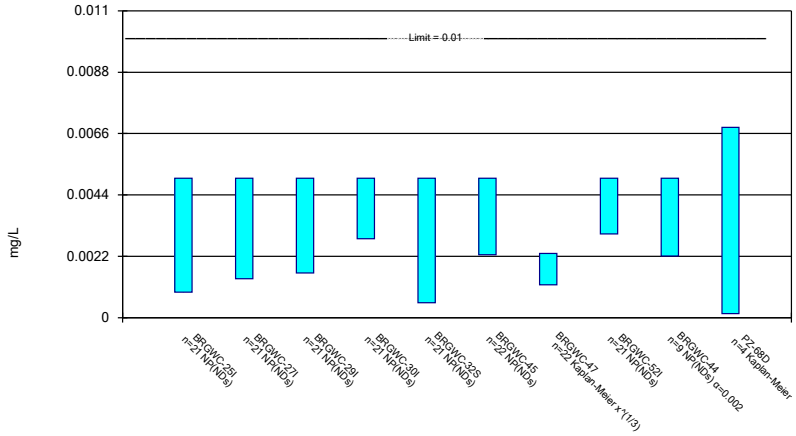


Constituent: Antimony Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

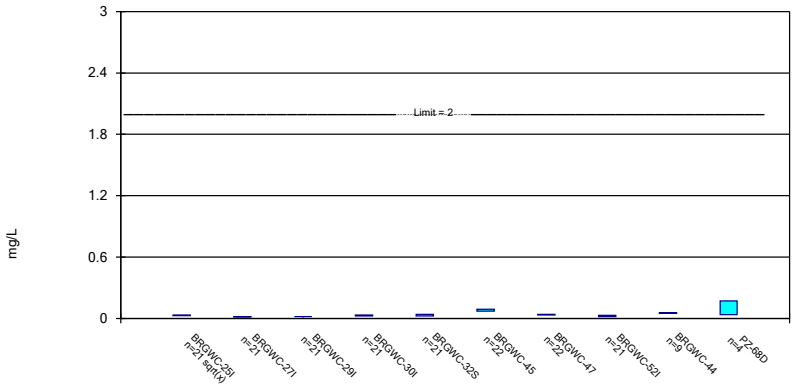


Constituent: Arsenic Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

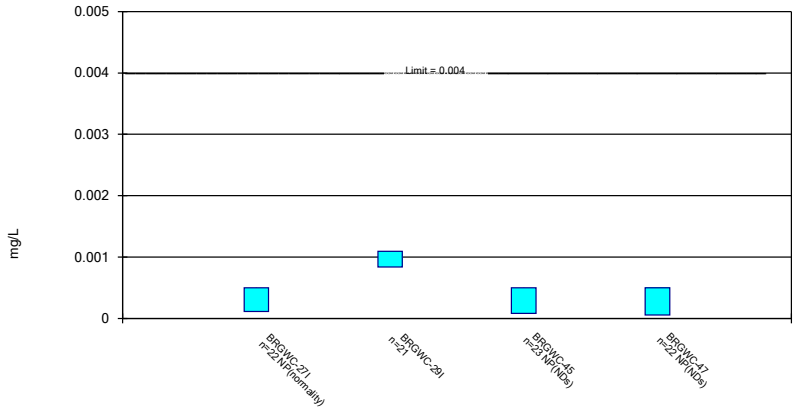


Constituent: Barium Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

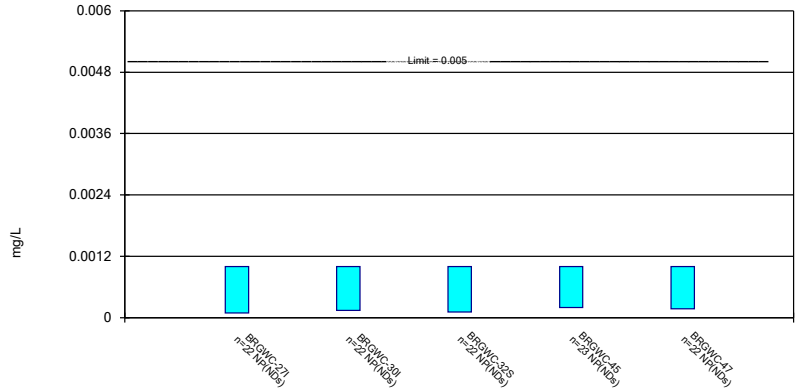


Constituent: Beryllium Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

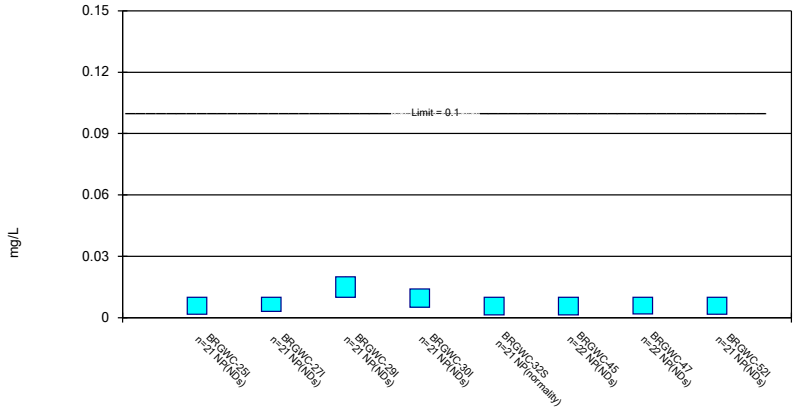


Constituent: Cadmium Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

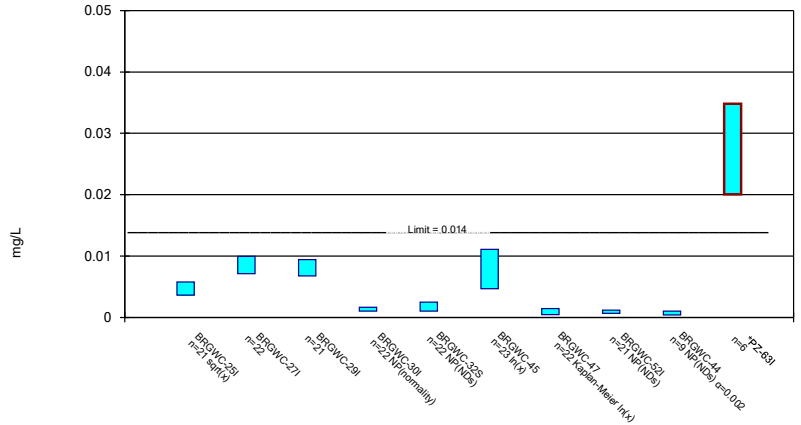


Constituent: Chromium Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

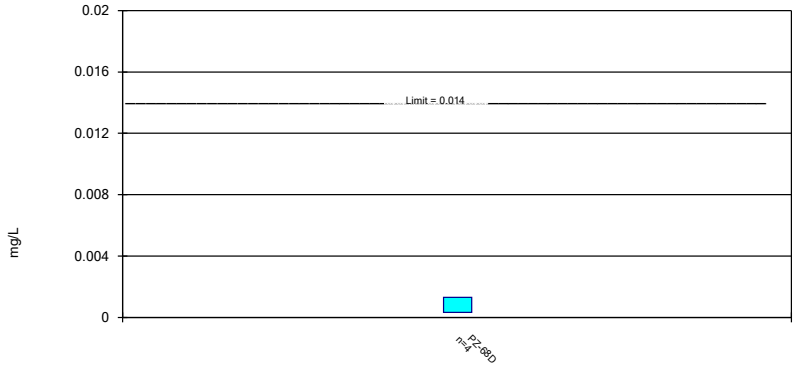


Constituent: Cobalt Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

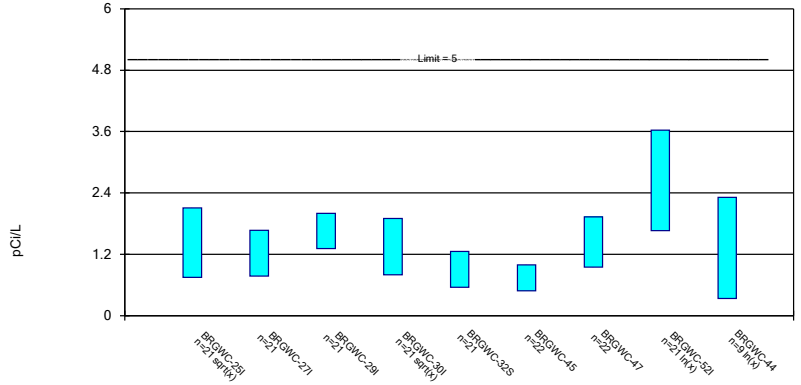


Constituent: Cobalt Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric Confidence Interval

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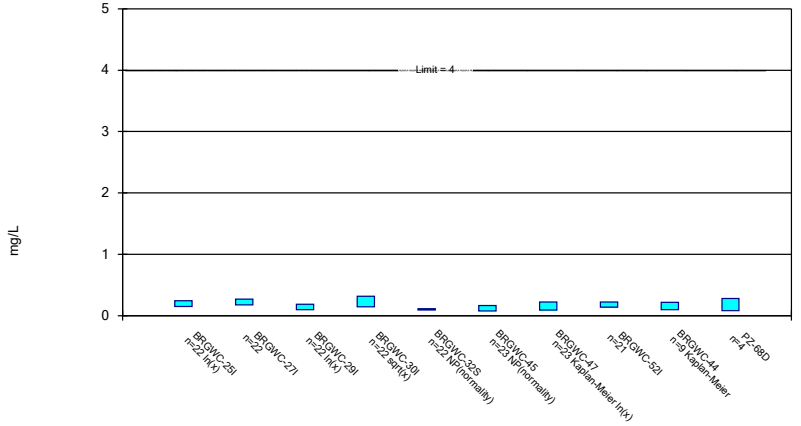


Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidenc
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

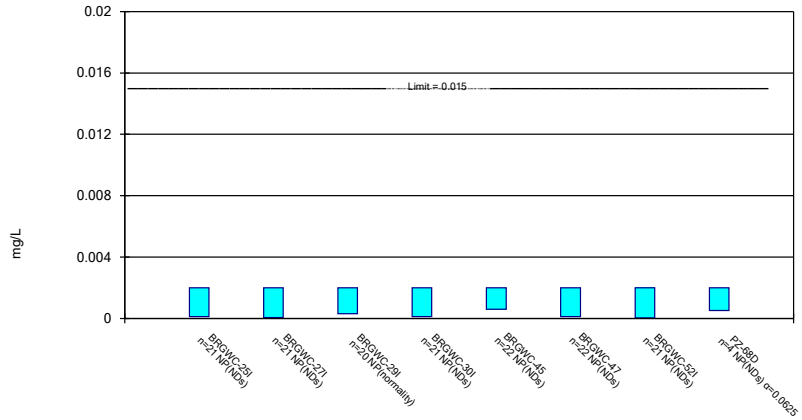


Constituent: Fluoride Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

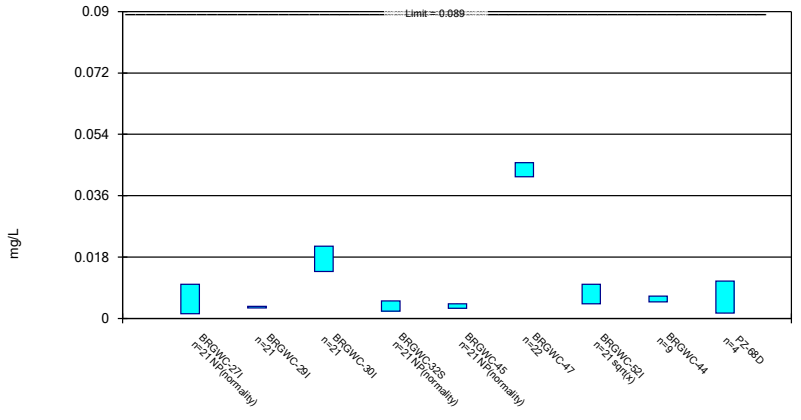


Constituent: Lead Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

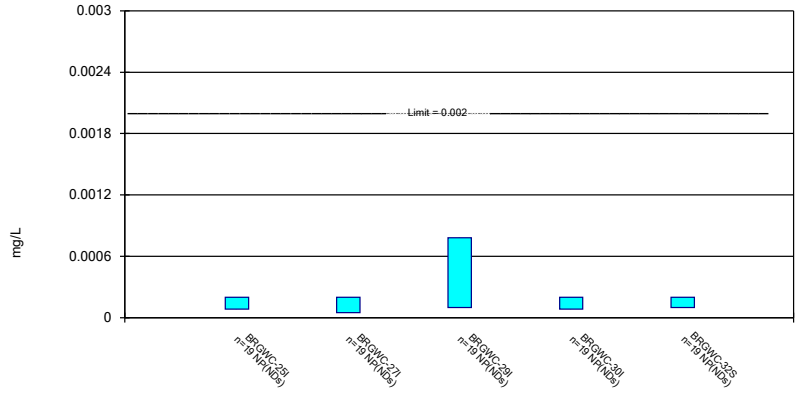


Constituent: Lithium Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

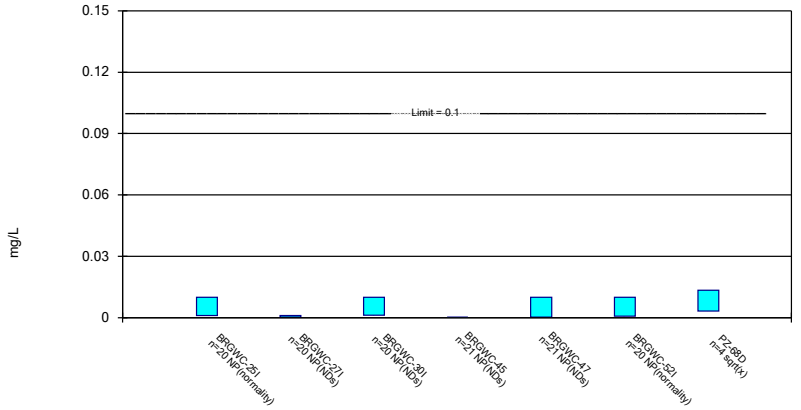


Constituent: Mercury Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

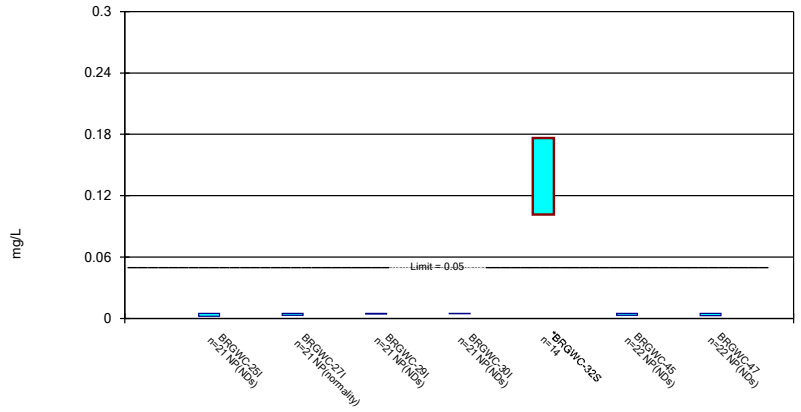


Constituent: Molybdenum Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

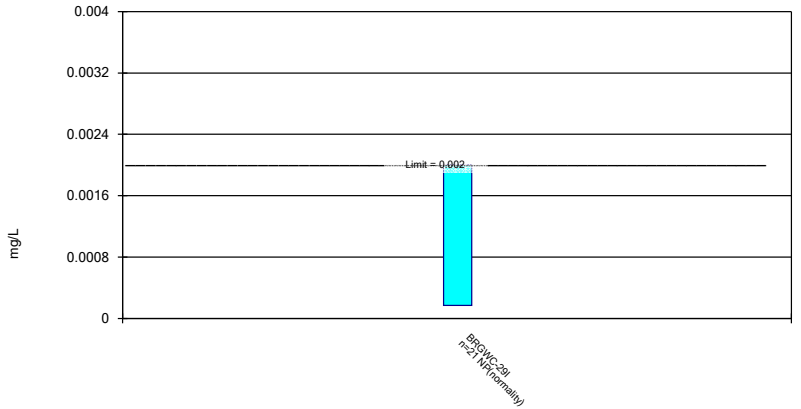


Constituent: Selenium Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

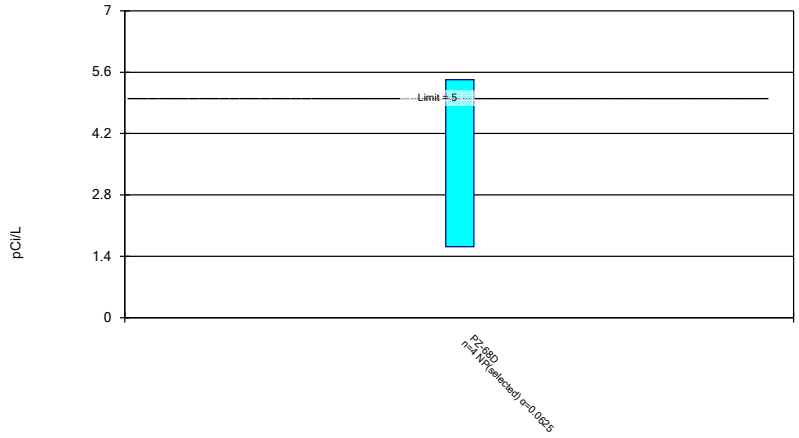


Constituent: Thallium Analysis Run 1/21/2025 1:45 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2025 1:47 PM View: Pond BCD - Confidenc

Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
9/6/2016		<0.003					
9/8/2016	<0.003		<0.003				
11/21/2016	<0.003	<0.003	<0.003				
2/22/2017	<0.003	<0.003	<0.003				
6/14/2017	0.0007 (J)	<0.003	<0.003				
9/27/2017	<0.003	<0.003	<0.003				
2/14/2018	<0.003	<0.003	<0.003				
3/6/2018				<0.003	<0.003		
5/1/2018				<0.003	<0.003 (D)		
6/27/2018	<0.003		<0.003		<0.003		
6/28/2018		<0.003		<0.003			
7/31/2018				<0.003			
8/1/2018					<0.003		
8/10/2018						<0.003	
8/23/2018				<0.003	<0.003	0.00085 (J)	
9/19/2018				<0.003	<0.003	<0.003	
10/29/2018				<0.003	<0.003	<0.003	
11/28/2018				<0.003	<0.003	<0.003	
12/18/2018	<0.003	<0.003					
12/19/2018			<0.003		<0.003		
12/20/2018				0.0024 (J)		<0.003	
1/17/2019						<0.003	
2/13/2019						<0.003	
8/27/2019		<0.003	<0.003				
8/28/2019	<0.003			0.00046 (J)	<0.003		
8/29/2019						<0.003	
10/16/2019	<0.003				<0.003	<0.003	
12/3/2019				0.00088 (J)			
12/4/2019		<0.003	<0.003				
3/4/2020	<0.003				<0.003	0.00043 (J)	
3/5/2020		<0.003	0.0014 (J)	0.0016 (J)			
8/19/2020	<0.003	<0.003	<0.003				
8/20/2020				0.0031	<0.003	<0.003	
9/15/2020	<0.003						
9/16/2020		<0.003	<0.003	0.0012 (J)	0.00035 (J)		
9/17/2020						<0.003	
3/2/2021				0.0014 (J)	<0.003		
3/3/2021	<0.003	<0.003					
3/4/2021			<0.003			0.00091 (J)	
9/23/2021				<0.003	<0.003		
9/28/2021	<0.003	<0.003	<0.003			<0.003	
2/2/2022		0.0013 (J)	<0.003	<0.003	<0.003	<0.003	
2/3/2022	<0.003						
8/23/2022					<0.003		
8/24/2022	<0.003	<0.003					
8/25/2022			<0.003	<0.003		<0.003	
1/24/2023			<0.003				
1/25/2023				<0.003		<0.003	
1/26/2023	<0.003	<0.003			<0.003		
2/1/2023							0.00176 (J)
8/31/2023		<0.003	<0.003				
9/6/2023	<0.003			<0.003	<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
9/8/2023							<0.003
2/10/2024		<0.003	<0.003		<0.003		
2/13/2024	<0.003						
2/14/2024				<0.003		<0.003	<0.003
8/27/2024	<0.003						
8/28/2024		<0.003	<0.003		<0.003	<0.003	
8/29/2024				<0.003			<0.003
Mean	0.00289	0.002919	0.002924	0.002547	0.00288	0.002676	0.00269
Std. Dev.	0.0005019	0.000371	0.0003491	0.0008329	0.000565	0.0008181	0.00062
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0007	0.0013	0.0014	0.0024	0.00035	0.00091	0.00176

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
9/6/2016				<0.005					
9/8/2016	<0.005	<0.005	<0.005		<0.005				
11/17/2016	<0.005								
11/18/2016		<0.005							
11/21/2016			0.0019 (J)	<0.005	<0.005				
2/21/2017	<0.005	<0.005							
2/22/2017			<0.005	<0.005	<0.005				
6/13/2017	0.0006 (J)	0.0009 (J)							
6/14/2017			0.002 (J)	<0.005	<0.005				
9/27/2017	<0.005	0.0007 (J)	0.0016 (J)	<0.005	<0.005				
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005				
3/6/2018						<0.005 (X)	<0.005 (X)		<0.005 (X)
5/1/2018						0.0021 (J)	0.0018 (JD)		<0.005
6/26/2018	0.00072 (J)								
6/27/2018		<0.005	<0.005		<0.005		0.0016 (J)		
6/28/2018				<0.005 (X)		<0.005 (X)			
7/31/2018						<0.005			
8/1/2018							0.0028 (J)		
8/10/2018								<0.005	
8/23/2018						0.00075 (J)	<0.005	<0.005	
9/19/2018						<0.005	<0.005	0.0013 (J)	
10/29/2018						<0.005	0.0012 (J)	0.0038 (J)	
11/28/2018						0.00096 (J)	0.0019 (J)	0.0016 (J)	
12/18/2018	0.00091 (J)		<0.005	<0.005					
12/19/2018					<0.005		0.00075 (J)		
12/20/2018		<0.005				<0.005		0.0032 (J)	
1/17/2019								0.0032 (J)	
2/13/2019								<0.005	
8/27/2019	<0.005			<0.005	<0.005				
8/28/2019		0.0014 (J)	0.00051 (J)			0.00058 (J)	0.0018 (J)		
8/29/2019								0.00067 (J)	
10/15/2019	0.00052 (J)								
10/16/2019			0.00065 (J)				<0.005	0.0026 (J)	
12/3/2019						0.0007 (J)			
12/4/2019		0.0011 (J)		0.00056 (J)	0.00053 (J)				
3/4/2020	<0.005	<0.005	0.00044 (J)				0.00049 (J)	0.0047 (J)	
3/5/2020				<0.005	<0.005	<0.005			
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005				
8/20/2020						<0.005	0.00089 (J)	0.0031 (J)	
9/15/2020	<0.005		<0.005						
9/16/2020		<0.005		<0.005	<0.005	<0.005	<0.005		
9/17/2020								<0.005	
3/2/2021	<0.005					<0.005	<0.005		
3/3/2021		<0.005	0.0015 (J)	<0.005					
3/4/2021					<0.005			0.003 (J)	
9/23/2021						<0.005	0.002 (J)		
9/28/2021	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
2/2/2022	<0.005			<0.005	<0.005	<0.005	0.0056	<0.005	0.004 (J)
2/3/2022			<0.005						
2/4/2022		<0.005							
8/23/2022	<0.005						0.00228 (J)		
8/24/2022			<0.005	0.00283 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
8/25/2022		<0.005			<0.005	<0.005		<0.005	<0.005
1/24/2023					<0.005				
1/25/2023		<0.005				0.00225 (J)		<0.005	0.00221 (J)
1/26/2023	<0.005		<0.005	0.00208 (J)			0.0024 (J)		
2/1/2023									
8/31/2023				<0.005	<0.005				
9/6/2023	<0.005	<0.005	<0.005			<0.005	0.0038 (J)	<0.005	
9/8/2023									<0.005
2/10/2024				0.002 (J)	<0.005		<0.005		<0.005
2/13/2024	<0.005	<0.005	<0.005						
2/14/2024						<0.005		<0.005	
8/27/2024		<0.005	<0.005						<0.005
8/28/2024				<0.005	<0.005		<0.005	<0.005	
8/29/2024	<0.005					<0.005			
Mean	0.004179	0.004243	0.003743	0.004403	0.004787	0.00397	0.00315	0.003913	0.004579
Std. Dev.	0.001736	0.001604	0.001859	0.001313	0.0009754	0.00176	0.001772	0.001424	0.0009479
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.0023	0.005	0.005
Lower Lim.	0.00091	0.0014	0.0016	0.00283	0.00053	0.00225	0.001182	0.003	0.00221

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D
9/6/2016	
9/8/2016	
11/17/2016	
11/18/2016	
11/21/2016	
2/21/2017	
2/22/2017	
6/13/2017	
6/14/2017	
9/27/2017	
2/14/2018	
3/6/2018	
5/1/2018	
6/26/2018	
6/27/2018	
6/28/2018	
7/31/2018	
8/1/2018	
8/10/2018	
8/23/2018	
9/19/2018	
10/29/2018	
11/28/2018	
12/18/2018	
12/19/2018	
12/20/2018	
1/17/2019	
2/13/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
12/3/2019	
12/4/2019	
3/4/2020	
3/5/2020	
8/19/2020	
8/20/2020	
9/15/2020	
9/16/2020	
9/17/2020	
3/2/2021	
3/3/2021	
3/4/2021	
9/23/2021	
9/28/2021	
2/2/2022	
2/3/2022	
2/4/2022	
8/23/2022	
8/24/2022	

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D
8/25/2022	
1/24/2023	
1/25/2023	
1/26/2023	
2/1/2023	0.0058
8/31/2023	
9/6/2023	
9/8/2023	0.00342 (J)
2/10/2024	
2/13/2024	
2/14/2024	<0.005
8/27/2024	
8/28/2024	
8/29/2024	<0.005
Mean	0.004805
Std. Dev.	0.0009974
Upper Lim.	0.006826
Lower Lim.	0.0001393

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
9/6/2016				0.0206					
9/8/2016	0.0378	0.0184	0.0199		0.0593				
11/17/2016	0.0448								
11/18/2016		0.0173							
11/21/2016			0.0221 (J)	0.0237 (J)	0.0532 (BR)				
2/21/2017	0.0447	0.015							
2/22/2017			0.0179	0.0219	0.0498				
6/13/2017	0.0351	0.0143							
6/14/2017			0.0157	0.0197	0.0421				
9/27/2017	0.0383	0.017	0.0165	0.0213	0.0411				
2/14/2018	0.0327	0.0166	0.0163	0.0236	0.0417				
3/6/2018						0.1	0.0519		0.0461
5/1/2018						0.084	0.057 (D)		0.052
6/26/2018	0.031								
6/27/2018		0.015	0.017		0.038		0.046		
6/28/2018				0.023		0.067			
7/31/2018						0.087 (J+X)			
8/1/2018							0.043 (J+X)		
8/10/2018								0.038	
8/23/2018						0.084	0.038	0.03 (JX)	
9/19/2018						0.086	0.036	0.03	
10/29/2018						0.098 (J+X)	0.041 (J+X)	0.025 (J+X)	
11/28/2018						0.11	0.039	0.017	
12/18/2018	0.03		0.017	0.029					
12/19/2018					0.036		0.04		
12/20/2018		0.015				0.093		0.013	
1/17/2019								0.017	
2/13/2019								0.025	
8/27/2019	0.027			0.027	0.032				
8/28/2019		0.019	0.02			0.11	0.035		
8/29/2019								0.017	
10/15/2019	0.027								
10/16/2019			0.019				0.032	0.015	
12/3/2019						0.099			
12/4/2019		0.016		0.021	0.028				
3/4/2020	0.026	0.015	0.018				0.038	0.022	
3/5/2020				0.025	0.026	0.078			
8/19/2020	0.027	0.016	0.019	0.026	0.025				
8/20/2020						0.083	0.035	0.017	
9/15/2020	0.024		0.017						
9/16/2020		0.016		0.022	0.024	0.085	0.028		
9/17/2020								0.02	
3/2/2021	0.026					0.061	0.036		
3/3/2021		0.016	0.021	0.028					
3/4/2021					0.024			0.019	
9/23/2021						0.064	0.031		
9/28/2021	0.023	0.013	0.017	0.035	0.02			0.013	0.049
2/2/2022	0.023			0.031	0.023	0.063	0.028	0.013	0.052
2/3/2022			0.016						
2/4/2022		0.015							
8/23/2022	0.0259						0.0285		
8/24/2022			0.0175	0.0389					

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
8/25/2022		0.0161			0.0231	0.0574		0.0179	0.056
1/24/2023					0.0182				
1/25/2023		0.0166				0.0695		0.0249	0.0498
1/26/2023	0.0293		0.018	0.0397			0.0311		
2/1/2023									
8/31/2023				0.04	0.0243				
9/6/2023	0.0271	0.0151	0.0174			0.0524	0.028	0.0415	
9/8/2023									0.0555
2/10/2024				0.0349	0.0192		0.0278		0.052
2/13/2024	0.0276	0.0155	0.0179						
2/14/2024						0.0497		0.0414	
8/27/2024		0.0164	0.0163						0.0524
8/28/2024				0.0339	0.0163		0.0257	0.0345	
8/29/2024	0.0291					0.0602			
Mean	0.0303	0.01592	0.01793	0.02787	0.03163	0.07915	0.03618	0.02339	0.05164
Std. Dev.	0.006413	0.001344	0.001692	0.006739	0.01231	0.01821	0.008132	0.009232	0.003081
Upper Lim.	0.03348	0.01666	0.01886	0.03158	0.03843	0.08892	0.04055	0.02848	0.05462
Lower Lim.	0.02673	0.01518	0.017	0.02415	0.02484	0.06937	0.03182	0.0183	0.04867

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D
9/6/2016	
9/8/2016	
11/17/2016	
11/18/2016	
11/21/2016	
2/21/2017	
2/22/2017	
6/13/2017	
6/14/2017	
9/27/2017	
2/14/2018	
3/6/2018	
5/1/2018	
6/26/2018	
6/27/2018	
6/28/2018	
7/31/2018	
8/1/2018	
8/10/2018	
8/23/2018	
9/19/2018	
10/29/2018	
11/28/2018	
12/18/2018	
12/19/2018	
12/20/2018	
1/17/2019	
2/13/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
12/3/2019	
12/4/2019	
3/4/2020	
3/5/2020	
8/19/2020	
8/20/2020	
9/15/2020	
9/16/2020	
9/17/2020	
3/2/2021	
3/3/2021	
3/4/2021	
9/23/2021	
9/28/2021	
2/2/2022	
2/3/2022	
2/4/2022	
8/23/2022	
8/24/2022	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D
8/25/2022	
1/24/2023	
1/25/2023	
1/26/2023	
2/1/2023	0.145
8/31/2023	
9/6/2023	
9/8/2023	0.107
2/10/2024	
2/13/2024	
2/14/2024	0.0853
8/27/2024	
8/28/2024	
8/29/2024	0.0796
Mean	0.1042
Std. Dev.	0.02964
Upper Lim.	0.1715
Lower Lim.	0.03694

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47
9/8/2016	0.0002 (J)	0.0011 (J)		
11/18/2016	0.0002 (J)			
11/21/2016		0.0012 (J)		
2/21/2017	0.0002 (J)			
2/22/2017		0.0014 (J)		
6/13/2017	0.0002 (J)			
6/14/2017		0.0012 (J)		
9/27/2017	0.0001 (J)	0.001 (J)		
2/14/2018	<0.0005	<0.003		
3/6/2018			<0.0005	<0.0005
5/1/2018			<0.0005	<0.0005 (D)
6/27/2018	0.00014 (J)	0.0008 (J)		<0.0005
6/28/2018			<0.0005	
7/31/2018			<0.0005	
8/1/2018				<0.0005
8/23/2018			7.9E-05 (J)	5.5E-05 (J)
9/19/2018			<0.0005	<0.0005
10/29/2018			<0.0005	<0.0005
11/28/2018			<0.0005	5.6E-05 (J)
12/18/2018		0.00071 (J)		
12/19/2018				<0.0005 (X)
12/20/2018	<0.0005 (X)		<0.0005	
8/28/2019	0.00012 (J)	0.0008 (J)	<0.0005	<0.0005
10/16/2019		0.00072 (J)		<0.0005
10/17/2019	<0.0005		<0.0005	
12/3/2019			<0.0005	
12/4/2019	0.00012 (J)			
3/4/2020	0.00012 (J)	0.00073 (J)		<0.0005
3/5/2020			<0.0005	
8/19/2020	9.9E-05 (J)	0.00074 (J)		
8/20/2020			4.6E-05 (J)	4.7E-05 (J)
9/15/2020		0.00071 (J)		
9/16/2020	0.00011 (J)		<0.0005	<0.0005
3/2/2021			<0.0005	<0.0005
3/3/2021	7.1E-05 (J)	0.00094		
9/23/2021			<0.0005	<0.0005
9/28/2021	<0.0005	0.00079		
2/2/2022			<0.0005	<0.0005
2/3/2022		0.00083		
2/4/2022	5.4E-05 (J)			
8/23/2022				<0.0005
8/24/2022		0.000845		
8/25/2022	<0.0005		<0.0005	
1/25/2023	<0.0005		<0.0005	
1/26/2023		0.00109		<0.0005
9/6/2023	<0.0005	0.00113	<0.0005	<0.0005
2/10/2024				<0.0005
2/13/2024	<0.0005	0.00114		
2/14/2024			<0.0005	
8/27/2024	<0.0005	0.000892		
8/28/2024				<0.0005
8/29/2024			<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47
Mean	0.0002834	0.0009651	0.000462	0.000439
Std. Dev.	0.0001885	0.0002344	0.0001261	0.0001571
Upper Lim.	0.0005	0.001094	0.0005	0.0005
Lower Lim.	0.00011	0.0008358	7.9E-05	5.6E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016		<0.001			
9/8/2016	7E-05 (J)		<0.001		
11/18/2016	9E-05 (J)				
11/21/2016		8E-05 (J)	8E-05 (J)		
2/21/2017	<0.001				
2/22/2017		<0.001	0.0001 (J)		
6/13/2017	<0.001				
6/14/2017		<0.001	<0.001		
9/27/2017	<0.001	<0.001	<0.001		
2/14/2018	<0.001	<0.001	<0.001		
3/6/2018				<0.001	<0.001
5/1/2018				<0.001	<0.001 (D)
6/27/2018	<0.001		0.00011 (J)		0.00014 (J)
6/28/2018		<0.001		<0.001	
7/31/2018				<0.001	
8/1/2018					0.00011 (J)
8/23/2018				<0.001	0.00018 (J)
9/19/2018				<0.001	0.00015 (J)
10/29/2018				9.8E-05 (J)	0.00019 (J)
11/28/2018				<0.001	0.00022 (J)
12/18/2018		<0.001			
12/19/2018			<0.001 (X)		<0.001
12/20/2018	<0.001			<0.001 (X)	
8/27/2019		<0.001	<0.001		
8/28/2019	<0.001			<0.001	0.00017 (J)
10/16/2019					0.00018 (J)
10/17/2019	<0.001	<0.001	<0.001	<0.001	
12/3/2019				0.00011 (J)	
12/4/2019	<0.001	<0.001	<0.001		
3/4/2020	<0.001				0.00024 (J)
3/5/2020		<0.001	<0.001	<0.001	
8/19/2020	<0.001	<0.001	<0.001		
8/20/2020				0.00014 (J)	<0.001
9/16/2020	<0.001	<0.001	<0.001	<0.001	<0.001
3/2/2021				0.0002 (J)	<0.001
3/3/2021	<0.001	<0.001			
3/4/2021			<0.001		
9/23/2021				<0.001	<0.001
9/28/2021	<0.001	<0.001	<0.001		
2/2/2022		0.00014 (J)	<0.001	<0.001	0.00015 (J)
2/4/2022	<0.001				
8/23/2022					<0.001
8/24/2022		<0.001			
8/25/2022	<0.001		<0.001	<0.001	
1/24/2023			<0.001		
1/25/2023	<0.001			<0.001	
1/26/2023		<0.001			<0.001
8/31/2023		<0.001	<0.001		
9/6/2023	<0.001			<0.001	<0.001
2/10/2024		<0.001	<0.001		<0.001
2/13/2024	<0.001				
2/14/2024				<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
8/27/2024	<0.001				
8/28/2024		<0.001	<0.001		<0.001
8/29/2024				<0.001	
Mean	0.0009164	0.0009191	0.0008768	0.0008499	0.0006241
Std. Dev.	0.0002707	0.000262	0.0003173	0.0003349	0.0004222
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	9E-05	0.00014	0.00011	0.0002	0.00017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I
9/6/2016				<0.01				
9/8/2016	<0.01	0.001 (J)	<0.01		<0.01			
11/17/2016	<0.01							
11/18/2016		<0.01						
11/21/2016			<0.01	<0.01	<0.01			
2/21/2017	<0.01	<0.01						
2/22/2017			<0.01	<0.01	0.0012 (J)			
6/13/2017	<0.01	<0.01						
6/14/2017			<0.01	<0.01	0.0009 (J)			
9/27/2017	<0.01	<0.01	<0.01	<0.01	0.0011 (J)			
2/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01			
3/6/2018						<0.01	<0.01	
5/1/2018						<0.01	<0.01 (D)	
6/26/2018	<0.01							
6/27/2018		<0.01	<0.01		<0.01		<0.01	
6/28/2018				<0.01		<0.01		
7/31/2018						<0.01		
8/1/2018							<0.01	
8/10/2018								0.0017 (J)
8/23/2018						<0.01	<0.01	<0.01
9/19/2018						<0.01	<0.01	<0.01
10/29/2018						<0.01	<0.01	<0.01
11/28/2018						<0.01	<0.01	<0.01
12/18/2018	<0.01		<0.01	<0.01				
12/19/2018					<0.01		0.0018 (J)	
12/20/2018		0.003 (J)				<0.01		<0.01
1/17/2019								<0.01
2/13/2019								<0.01
8/27/2019	0.0016 (J)			0.0051 (J)	0.0019 (J)			
8/28/2019		<0.01	<0.01			<0.01	0.00092 (J)	
8/29/2019								<0.01
10/15/2019	0.00098 (J)							
10/16/2019			<0.01				<0.01	<0.01
12/3/2019						<0.01		
12/4/2019		<0.01		<0.01	0.0014 (J)			
3/4/2020	<0.01	<0.01	0.02				0.00078 (J)	<0.01
3/5/2020				<0.01	0.0014 (J)	0.00053 (J)		
8/19/2020	<0.01	<0.01	<0.01	<0.01	0.0021 (J)			
8/20/2020						0.001 (J)	0.00064 (J)	<0.01
9/15/2020	<0.01		<0.01					
9/16/2020		<0.01		0.014	0.0025 (J)	0.0014 (J)	<0.01	
9/17/2020								<0.01
3/2/2021	<0.01					<0.01	<0.01	
3/3/2021		<0.01	<0.01	<0.01				
3/4/2021					0.002 (J)			<0.01
9/23/2021						<0.01	<0.01	
9/28/2021	<0.01	<0.01	<0.01	<0.01	0.0021 (J)			<0.01
2/2/2022	<0.01			<0.01	0.0021 (J)	<0.01	<0.01	<0.01
2/3/2022			<0.01					
2/4/2022		<0.01						
8/23/2022	<0.01						<0.01	
8/24/2022			<0.01	<0.01				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I
8/25/2022		<0.01			<0.01	<0.01		<0.01
1/24/2023					<0.01			
1/25/2023		<0.01				<0.01		<0.01
1/26/2023	<0.01		<0.01	<0.01			<0.01	
8/31/2023				<0.01	<0.01			
9/6/2023	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01
2/10/2024				<0.01	<0.01		<0.01	
2/13/2024	<0.01	<0.01	<0.01					
2/14/2024						<0.01		<0.01
8/27/2024		<0.01	<0.01					
8/28/2024				<0.01	<0.01		<0.01	<0.01
8/29/2024	<0.01					<0.01		
Mean	0.00917	0.009238	0.01048	0.009957	0.005652	0.00877	0.00837	0.009605
Std. Dev.	0.002622	0.002427	0.002182	0.001414	0.004263	0.003172	0.003545	0.001811
Upper Lim.	0.01	0.01	0.02	0.014	0.01	0.01	0.01	0.01
Lower Lim.	0.0016	0.003	0.01	0.0051	0.0014	0.0014	0.0018	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
9/6/2016				0.0006 (J)					
9/8/2016	0.0073 (J)	0.0149	0.0122		0.0025 (J)				
11/17/2016	0.0086 (J)								
11/18/2016		0.0131							
11/21/2016			0.0122	<0.04	0.001 (J)				
2/21/2017	0.0079 (J)	0.0099 (J)							
2/22/2017			0.0136	0.0016 (J)	<0.001				
6/13/2017	0.0083 (J)	0.0094 (J)							
6/14/2017			0.0113	0.0015 (J)	<0.001				
9/27/2017	0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)	<0.001				
2/14/2018	<0.01	0.0112	<0.01	<0.04	<0.001				
3/6/2018						0.0162	<0.001		<0.001
5/1/2018						0.015	0.0125 (D)		<0.001
6/26/2018	0.006 (J)								
6/27/2018		0.0093 (J)	0.0069 (J)		<0.001		0.0076 (J)		
6/28/2018				0.00078 (J)		0.01			
7/31/2018						0.0098 (J)			
8/1/2018							0.004 (J)		
8/10/2018								0.0043 (J)	
8/23/2018						0.0093 (J)	0.0016 (J)	0.0026 (J)	
9/19/2018						0.0084 (J)	0.0018 (J)	0.0028 (J)	
10/29/2018						0.0064 (J)	0.0014 (J)	0.0015 (J)	
11/28/2018						0.0071 (J)	0.0016 (J)	0.0012 (J)	
12/18/2018	0.0055 (J)		0.0067 (J)	0.0011 (J)					
12/19/2018					<0.001		0.0014 (J)		
12/20/2018		0.0081 (J)				0.069		<0.001	
1/17/2019								<0.001	
2/13/2019								<0.001	
8/27/2019	0.0042 (J)			0.0014 (J)	<0.001				
8/28/2019		0.01	0.0061			0.011	0.00037 (J)		
8/29/2019								0.00063 (J)	
10/15/2019	0.0043 (J)								
10/16/2019			0.0058				0.00032 (J)	<0.001	
10/17/2019		0.011 (J)		<0.04	<0.001	0.0098 (J)			
12/3/2019						0.0076			
12/4/2019		0.0086		0.0012 (J)	<0.001				
3/4/2020	0.0039 (J)	0.008	0.007				0.0011 (J)	<0.001	
3/5/2020				0.0011 (J)	<0.001	0.0091			
8/19/2020	0.0039 (J)	0.0078	0.0065	0.0008 (J)	<0.001				
8/20/2020						0.022	0.00043 (J)	<0.001	
9/15/2020	0.0035 (J)		0.0064						
9/16/2020		0.008		0.0008 (J)	<0.001	0.0049 (J)	0.00053 (J)		
9/17/2020								0.00046 (J)	
3/2/2021	0.003 (J)					0.0057	0.0005 (J)		
3/3/2021		0.0062	0.0095	0.0015 (J)					
3/4/2021					<0.001			<0.001	
9/23/2021						0.0049 (J)	<0.001		
9/28/2021	0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)	<0.001			<0.001	<0.001
2/2/2022	0.0027 (J)			0.0012 (J)	<0.001	0.0054	<0.001	<0.001	<0.001
2/3/2022			0.0077						
2/4/2022		0.0076							
8/23/2022	0.00342						<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
8/24/2022			0.0066	0.00163					
8/25/2022		0.0079			<0.001	0.00357		<0.001	<0.001
1/24/2023					<0.001				
1/25/2023		0.00711				0.00258		<0.001	<0.001
1/26/2023	0.0032		0.00823	0.00158			0.000376 (J)		
1/30/2023									
8/31/2023				0.00183	<0.001				
9/6/2023	0.00343	0.00601	0.00724			0.00221	<0.001	0.000317 (J)	
9/8/2023									<0.001
2/10/2024				0.00179	<0.001		<0.001		0.000408 (J)
2/13/2024	0.00254	0.00392	0.00874						
2/14/2024						0.00181		0.00042 (J)	
8/27/2024		0.00566	0.00574						<0.001
8/28/2024				0.00149	<0.001		<0.001	<0.001	
8/29/2024	0.00319					0.00203			
Mean	0.004832	0.008541	0.008083	0.0038	0.001068	0.0106	0.001933	0.001249	0.0009342
Std. Dev.	0.002109	0.002596	0.002422	0.006598	0.0003198	0.01364	0.00284	0.0009195	0.0001973
Upper Lim.	0.005785	0.009934	0.009419	0.00163	0.0025	0.01111	0.001434	0.0012	0.001
Lower Lim.	0.003608	0.007147	0.006747	0.001	0.001	0.004672	0.000455	0.00063	0.000408

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I
9/6/2016	
9/8/2016	
11/17/2016	
11/18/2016	
11/21/2016	
2/21/2017	
2/22/2017	
6/13/2017	
6/14/2017	
9/27/2017	
2/14/2018	
3/6/2018	
5/1/2018	
6/26/2018	
6/27/2018	
6/28/2018	
7/31/2018	
8/1/2018	
8/10/2018	
8/23/2018	
9/19/2018	
10/29/2018	
11/28/2018	
12/18/2018	
12/19/2018	
12/20/2018	
1/17/2019	
2/13/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
12/3/2019	
12/4/2019	
3/4/2020	
3/5/2020	
8/19/2020	
8/20/2020	
9/15/2020	
9/16/2020	
9/17/2020	
3/2/2021	
3/3/2021	
3/4/2021	
9/23/2021	
9/28/2021	
2/2/2022	
2/3/2022	
2/4/2022	0.019
8/23/2022	

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I
8/24/2022	
8/25/2022	0.0232
1/24/2023	
1/25/2023	
1/26/2023	
1/30/2023	0.028
8/31/2023	
9/6/2023	
9/8/2023	0.0309
2/10/2024	
2/13/2024	
2/14/2024	0.0299
8/27/2024	
8/28/2024	
8/29/2024	0.0335
Mean	0.02742
Std. Dev.	0.005372
Upper Lim.	0.0348
Lower Lim.	0.02004

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D
2/1/2023	0.000825 (J)
9/8/2023	0.00106
2/14/2024	0.000852 (J)
8/29/2024	0.000526 (J)
Mean	0.0008158
Std. Dev.	0.0002199
Upper Lim.	0.001315
Lower Lim.	0.0003166

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
9/6/2016				1.01 (U)					
9/8/2016	0.862 (U)	1.74	1.13		0.706 (U)				
11/17/2016	1.2 (U)								
11/18/2016		0.571 (U)							
11/21/2016			1.59	0.201 (U)	0.0569 (U)				
2/21/2017	1.31	1.28 (U)							
2/22/2017			1.64	0.57 (U)	1.07 (U)				
6/13/2017	0.738 (U)	0.521 (U)							
6/14/2017			1.32	0.726 (U)	0.459 (U)				
9/27/2017	0.583 (U)	0.595 (U)	1.7	0.884 (U)	0.807 (U)				
2/14/2018	1.41 (J+X)	1.18 (U)	1.89 (J+X)	1.14 (U)	1.67 (J+X)				
3/6/2018						1.25 (U)	1.75 (J+X)		0.577 (U)
5/1/2018						0.423 (U)	2.02 (J+XD)		0.27 (U)
6/26/2018	0.968 (U)								
6/27/2018		1.3 (U)	1.66 (J+X)		1.34 (UX)		0.878 (U)		
6/28/2018				1.4 (UX)		0.283 (U)			
7/31/2018						0.243 (U)			
8/1/2018							0.638 (U)		
8/10/2018								1.91	
8/23/2018						1.1 (U)	1.14 (U)	1.86 (J+X)	
9/19/2018						0.369 (U)	1.45 (UX)	1.64 (UX)	
10/29/2018						0.401 (U)	1.09 (U)	1.36 (U)	
11/28/2018						0.901 (U)	1.67 (UX)	1.07 (U)	
12/18/2018	1.13 (U)		0.759 (U)	0.661 (U)					
12/19/2018					1.21 (U)		1.3		
12/20/2018		0.527 (U)				0.657 (U)		0.892 (U)	
1/17/2019								1.1 (U)	
2/13/2019								1.68	
8/27/2019	0.91 (U)			1.35	0.86 (U)				
8/28/2019		0.643 (U)	1.76			0.528 (U)	0.804 (U)		
8/29/2019								1.44	
10/15/2019	1.06 (U)								
10/16/2019			1.69 (U)				1.28 (U)	2.13	
10/17/2019		1.07 (U)		1.25 (U)	1.2 (U)	0.977 (U)			
3/4/2020	1.34	1.18	1.23				0.862 (U)	2.3	
3/5/2020				1.35	0.483 (U)	0.921 (U)			
8/19/2020	0.467 (U)	0.684 (U)	0.876 (U)	1 (U)	0.482 (U)				
8/20/2020						0.501 (U)	1.64	2.97	
9/15/2020	0.205 (U)		1.23 (U)						
9/16/2020		0.175 (U)		0.43 (U)	0.195 (U)	0.254 (U)	0.51 (U)		
9/17/2020								2.04	
3/2/2021	0.161 (U)					0.107 (U)	0.571 (U)		
3/3/2021		0.829 (U)	1.31 (U)	0.415 (U)					
3/4/2021					0.32 (U)			2.04	
9/23/2021						0.619 (U)	0.527 (U)		
9/28/2021	4.44	3.58	1.49	0.749 (U)	0.947 (U)			3.28	0.526 (U)
2/2/2022	0.64 (U)			1.21 (U)	0.0265 (U)	0.219 (U)	0.145 (U)	2.33	0.244 (U)
2/3/2022			0.798 (U)						
2/4/2022		0.335 (U)							
8/23/2022	1.9						3.74		
8/24/2022			1.97	3.26					
8/25/2022		1.79			1.32	1.65		4.97	1.6

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
1/24/2023					2.25				
1/25/2023		1.53 (U)				1.29 (U)		7.94	2.49 (U)
1/26/2023	3.24		2.27 (U)	2.73 (U)			3.28		
9/22/2023				2.71	2.33				0.477 (U)
9/26/2023	1.21 (U)	2.23	3.02			0.607 (U)	2.39	6.36	
2/27/2024				4.11	0.572 (U)		2.63		2.87
2/28/2024	3.78	1.49 (U)	3.01						
2/29/2024						1.22 (U)		4.51	
8/27/2024		2.41	2.39						2.84
8/28/2024				3.82	0.737 (U)			14.7	
8/29/2024	6.24					1.71	1.32 (U)		
Mean	1.609	1.222	1.654	1.475	0.9067	0.7377	1.438	3.263	1.322
Std. Dev.	1.542	0.8135	0.6257	1.145	0.6356	0.4713	0.916	3.193	1.135
Upper Lim.	2.104	1.671	1.999	1.901	1.257	0.9907	1.93	3.627	2.315
Lower Lim.	0.7511	0.7732	1.309	0.7981	0.5561	0.4847	0.9463	1.662	0.3329

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
9/6/2016				0.43					
9/8/2016	0.14 (J)	0.31	0.2 (J)		0.15 (J)				
11/17/2016	0.27 (J)								
11/18/2016		0.19 (J)							
11/21/2016			0.37	0.24 (J)	0.04 (J)				
2/21/2017	0.6	0.35							
2/22/2017			0.37	0.2 (J)	0.08 (J)				
6/13/2017	0.19 (J)	0.19 (J)							
6/14/2017			0.38	0.15 (J)	0.09 (J)				
9/27/2017	0.5	0.4	0.4	0.41	<0.1				
2/14/2018	<0.3	<0.3	<0.3	<0.3	<0.1				
3/6/2018						0.94	1.1		<0.3
5/1/2018						<0.1	0.595 (D)		<0.3
6/26/2018	0.15 (J)								
6/27/2018		0.26 (J)	0.085 (J)		<0.1		0.27 (J)		
6/28/2018				0.93 (J+X)		0.69 (J+X)			
7/31/2018						<0.1			
8/1/2018							0.48		
8/10/2018								1.6 (O)	
8/23/2018						<0.1	0.34	0.32	
9/19/2018						<0.1	0.23 (J)	0.22 (J)	
10/29/2018						<0.1	<0.2	0.14 (J)	
11/28/2018						<0.1	0.063 (J)	0.24 (J)	
12/18/2018	0.29 (J)		0.26 (J)	0.54					
12/19/2018					0.23 (J)		0.28 (J)		
12/20/2018		0.26 (J)				0.12 (J)		0.3	
1/17/2019								0.23 (J)	
2/13/2019								<0.3	
3/19/2019		0.2 (J)					<0.2		
3/20/2019	0.17 (JD)		0.091 (J)	0.31	<0.1	0.066 (J)		0.135 (JD)	
8/27/2019	0.15 (J)			0.12 (J)	<0.1				
8/28/2019		0.074 (J)	0.055 (J)			<0.1	<0.2		
8/29/2019								0.087 (J)	
10/15/2019	0.16 (J)								
10/16/2019			0.11 (J)				0.076 (J)	0.22 (J)	
12/3/2019						0.19 (J)			
12/4/2019		0.18 (J)		0.26 (J)	0.11 (J)				
3/4/2020	0.07 (J)	<0.3	<0.3				<0.2	0.1 (J)	
3/5/2020				0.051 (J)	<0.1	<0.1			
8/19/2020	0.17	0.19	0.12	0.14	<0.1				
8/20/2020						<0.1	<0.2	0.23	
9/15/2020	0.15		0.057 (J)						
9/16/2020		0.15		0.13	<0.1	0.052 (J)	<0.2		
9/17/2020								0.074 (J)	
3/2/2021	0.15					0.067 (J)	<0.2		
3/3/2021		0.24	0.13	0.13					
3/4/2021					<0.1			0.28	
9/23/2021						0.06 (J)	<0.2		
9/28/2021	0.15	0.16	0.081 (J)	0.11	<0.1			0.12	0.08 (J)
2/2/2022	0.15			0.1	<0.1	<0.1	<0.2	0.098 (J)	0.065 (J)
2/3/2022			0.11						
2/4/2022		0.14							

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44
8/23/2022	0.186						<0.2		
8/24/2022			0.103	0.318					
8/25/2022		0.234			0.138	0.166		0.157	0.184
1/24/2023					0.082 (J)				
1/25/2023		0.152				0.163		0.169	0.13
1/26/2023	0.202		0.0935 (J)	0.167			0.117		
2/1/2023									
8/23/2023				0.116	0.0477 (J)				
8/24/2023									0.195
8/25/2023	0.25	0.302	0.0849 (J)			0.185	0.243	0.188 (J)	
1/31/2024					0.207				
2/1/2024	0.221	0.222	0.0968 (J)	0.169			0.11		0.242
2/2/2024						0.126		0.215	
8/27/2024		0.382	0.0849 (J)						0.193
8/28/2024				0.336 (J)	0.0511 (J)		<0.2	0.0748 (J)	
8/29/2024	0.248					0.078 (J)			
Mean	0.2144	0.2221	0.1628	0.2503	0.1057	0.1697	0.2654	0.1785	0.1877
Std. Dev.	0.1206	0.08435	0.1143	0.1968	0.04431	0.2103	0.2163	0.07413	0.08533
Upper Lim.	0.245	0.2674	0.186	0.3169	0.11	0.163	0.2194	0.2194	0.2142
Lower Lim.	0.151	0.1768	0.09624	0.1458	0.09	0.078	0.09107	0.1376	0.09695

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D
9/6/2016	
9/8/2016	
11/17/2016	
11/18/2016	
11/21/2016	
2/21/2017	
2/22/2017	
6/13/2017	
6/14/2017	
9/27/2017	
2/14/2018	
3/6/2018	
5/1/2018	
6/26/2018	
6/27/2018	
6/28/2018	
7/31/2018	
8/1/2018	
8/10/2018	
8/23/2018	
9/19/2018	
10/29/2018	
11/28/2018	
12/18/2018	
12/19/2018	
12/20/2018	
1/17/2019	
2/13/2019	
3/19/2019	
3/20/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
12/3/2019	
12/4/2019	
3/4/2020	
3/5/2020	
8/19/2020	
8/20/2020	
9/15/2020	
9/16/2020	
9/17/2020	
3/2/2021	
3/3/2021	
3/4/2021	
9/23/2021	
9/28/2021	
2/2/2022	
2/3/2022	
2/4/2022	

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D
8/23/2022	
8/24/2022	
8/25/2022	
1/24/2023	
1/25/2023	
1/26/2023	
2/1/2023	0.166
8/23/2023	
8/24/2023	0.218
8/25/2023	
1/31/2024	
2/1/2024	
2/2/2024	0.211
8/27/2024	
8/28/2024	
8/29/2024	0.126
Mean	0.1803
Std. Dev.	0.04288
Upper Lim.	0.2776
Lower Lim.	0.08289

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
9/6/2016				<0.002				
9/8/2016	<0.002	<0.002	0.0004 (J)					
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016			0.0006 (J)	<0.002				
2/21/2017	<0.002	<0.002						
2/22/2017			0.0005 (J)	<0.002				
6/13/2017	<0.002	<0.002						
6/14/2017			0.0004 (J)	<0.002				
9/27/2017	<0.002	<0.002	0.0006 (J)	<0.002				
2/14/2018	<0.002	<0.002	<0.005 (o)	<0.002				
3/6/2018					<0.002	<0.002		
5/1/2018					<0.002	<0.002 (D)		
6/26/2018	<0.002							
6/27/2018		<0.002	0.00032 (J)			<0.002		
6/28/2018				<0.002	<0.002			
7/31/2018					<0.002			
8/1/2018						<0.002		
8/10/2018							<0.002	
8/23/2018					<0.002	<0.002	<0.002	
9/19/2018					<0.002	<0.002	<0.002	
10/29/2018					<0.002	<0.002	<0.002	
11/28/2018					<0.002	<0.002	<0.002	
12/18/2018	<0.002		0.00038 (J)	<0.002				
12/19/2018						<0.002		
12/20/2018		<0.002			<0.002		<0.002	
1/17/2019							<0.002	
2/13/2019							<0.002	
8/27/2019	0.00011 (J)			<0.002				
8/28/2019		<0.002	0.00027 (J)		<0.002	<0.002		
8/29/2019							<0.002	
10/15/2019	<0.002							
10/16/2019			0.00027 (J)			<0.002	<0.002	
12/3/2019					<0.002			
12/4/2019		6.3E-05 (J)		<0.002				
3/4/2020	<0.002	<0.002	0.0003 (J)			0.00012 (J)	<0.002	
3/5/2020				<0.002	0.00026 (J)			
8/19/2020	<0.002	<0.002	0.00025 (J)	<0.002				
8/20/2020					0.00021 (J)	4.8E-05 (J)	<0.002	
9/15/2020	<0.002		0.00029 (J)					
9/16/2020		<0.002		0.00011 (J)	5.3E-05 (J)	6.6E-05 (J)		
9/17/2020							<0.002	
3/2/2021	<0.002				<0.002	<0.002		
3/3/2021		<0.002	0.00033 (J)	<0.002				
3/4/2021							4.2E-05 (J)	
9/23/2021					<0.002	<0.002		
9/28/2021	<0.002	<0.002	<0.002	<0.002			<0.002	
2/2/2022	<0.002			<0.002	<0.002	<0.002	<0.002	
2/3/2022			<0.002					
2/4/2022		<0.002						
8/23/2022	<0.002					<0.002		
8/24/2022			<0.002	<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
8/25/2022		<0.002			<0.002		<0.002	
1/25/2023		<0.002			0.000595 (J)		<0.002	
1/26/2023	<0.002		<0.002	<0.002		<0.002		
2/1/2023								<0.002
8/31/2023				<0.002				
9/6/2023	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	
9/8/2023								<0.002
2/10/2024				<0.002		<0.002		
2/13/2024	<0.002	<0.002	<0.002					
2/14/2024					<0.002		<0.002	0.000504 (J)
8/27/2024		<0.002	<0.002					
8/28/2024				<0.002		<0.002	<0.002	
8/29/2024	<0.002				<0.002			<0.002
Mean	0.00191	0.001908	0.0009455	0.00191	0.001687	0.001738	0.001907	0.001626
Std. Dev.	0.0004124	0.0004227	0.0007996	0.0004124	0.0006847	0.0006752	0.0004273	0.000748
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.00011	6.3E-05	0.0003	0.00011	0.000595	0.00012	4.2E-05	0.000504

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-68D
9/6/2016			0.0117 (J)						
9/8/2016	0.0021 (J)	0.004 (J)		<0.05					
11/18/2016	<0.01								
11/21/2016		0.0039 (J)	0.0108 (J)	<0.05					
2/21/2017	<0.01								
2/22/2017		0.0043 (J)	0.0103 (J)	0.0023 (J)					
6/13/2017	0.0017 (J)								
6/14/2017		0.0036 (J)	0.0101 (J)	0.0022 (J)					
9/27/2017	0.0016 (J)	0.0038 (J)	0.0116 (J)	0.0021 (J)					
2/14/2018	0.0018 (J)	0.0034 (J)	0.0115 (J)	0.0023 (J)					
3/6/2018					0.0031 (J)	0.0399 (J)		0.0046 (J)	
5/1/2018					0.0038 (J)	0.0475 (JD)		0.0049 (J)	
6/27/2018	0.0016 (J)	0.0034 (J)		0.0023 (J)		0.044 (J)			
6/28/2018			0.013 (J)		0.0028 (J)				
7/31/2018					<0.25 (o)				
8/1/2018						0.039 (J)			
8/10/2018							0.0087 (J)		
8/23/2018					0.0033 (J)	0.044 (J)	0.0089 (J)		
9/19/2018					0.0033 (J)	0.043 (J)	0.005 (J)		
10/29/2018					0.003 (J)	0.039 (J)	0.0048 (J)		
11/28/2018					0.0035 (J)	0.044 (J)	0.0052 (J)		
12/18/2018		0.0032 (J)	0.014 (J)						
12/19/2018				0.0018 (J)		0.043 (J)			
12/20/2018	0.0015 (J)				0.003 (J)		0.0042 (J)		
1/17/2019							0.0039 (J)		
2/13/2019							<0.05		
8/27/2019			0.016 (J)	0.0022 (J)					
8/28/2019	0.0016 (J)	0.0033 (J)			0.0034 (J)	0.044			
8/29/2019							0.0052 (J)		
10/16/2019		0.0029 (J)				0.038	0.0023 (J)		
12/3/2019					0.0033 (J)				
12/4/2019	0.0014 (J)		0.013 (J)	0.0022 (J)					
3/4/2020	0.0014 (J)	0.0029 (J)				0.042	0.002 (J)		
3/5/2020			0.016 (J)	0.0022 (J)	0.003 (J)				
8/19/2020	0.0014 (J)	0.0029 (J)	0.018 (J)	0.002 (J)					
8/20/2020					0.0034 (J)	0.044	0.0022 (J)		
9/15/2020		0.003 (J)							
9/16/2020	0.0014 (J)		0.016 (J)	0.0022 (J)	0.0036 (J)	0.039			
9/17/2020							0.0058 (J)		
3/2/2021					0.0043 (J)	0.044			
3/3/2021	0.0012 (J)	0.0032 (J)	0.014 (J)						
3/4/2021				0.002 (J)			0.003 (J)		
9/23/2021					0.0023 (J)	0.042			
9/28/2021	0.0011 (J)	0.0029 (J)	0.023 (J)	0.0021 (J)			0.0035 (J)	0.0048 (J)	
2/2/2022			0.021 (J)	0.0035 (J)	0.0022 (J)	0.04	0.0041 (J)	0.0058 (J)	
2/3/2022		0.0026 (J)							
2/4/2022	0.001 (J)								
8/23/2022						0.0474			
8/24/2022		0.00304 (J)	0.0238						
8/25/2022	<0.01			0.0043 (J)	<0.01		0.0162	0.00652 (J)	
1/24/2023				0.007 (J)					
1/25/2023	<0.01				0.00333 (J)		0.0186	0.00728 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	BRGWC-44	PZ-68D
1/26/2023		0.00331 (J)	0.0279			0.0506			
2/1/2023									0.00899 (J)
8/31/2023			0.0253	0.00392 (J)					
9/6/2023	<0.01	0.00349 (J)			<0.01	0.0532	0.0131		
9/8/2023								0.0056 (J)	0.00399 (J)
2/10/2024			0.0305	0.00591 (J)		0.0484		0.00537 (J)	
2/13/2024	<0.01	0.00337 (J)							
2/14/2024					<0.01		0.0122		0.00564 (J)
8/27/2024	<0.01	0.00305 (J)						0.00629 (J)	
8/28/2024			0.0295	0.00514 (J)		0.0436	0.00997 (J)		
8/29/2024					<0.01				0.00633 (J)
Mean	0.004324	0.003312	0.01748	0.005127	0.004506	0.04362	0.007803	0.005684	0.006238
Std. Dev.	0.004119	0.0004253	0.006679	0.006762	0.002767	0.003917	0.006125	0.0008877	0.002081
Upper Lim.	0.01	0.003547	0.02116	0.00514	0.0043	0.04572	0.01004	0.006541	0.01096
Lower Lim.	0.0014	0.003078	0.01379	0.0021	0.003	0.04152	0.004285	0.004827	0.001513

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S
9/6/2016				<0.0002	
9/8/2016	<0.0002	<0.0002	<0.0002		<0.0002
11/17/2016	<0.0002				
11/18/2016		<0.0002			
11/21/2016			<0.0002	<0.0002	<0.0002
2/21/2017	<0.0002	<0.0002			
2/22/2017			<0.0002	<0.0002	<0.0002
6/13/2017	<0.0002	5E-05 (J)			
6/14/2017			7E-05 (J)	7E-05 (J)	9E-05 (J)
9/27/2017	4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)	0.0001 (J)
2/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/26/2018	<0.0002				
6/27/2018		<0.0002	<0.0002		<0.0002
6/28/2018				<0.0002	
12/18/2018	<0.0002		<0.0002	<0.0002	
12/19/2018					<0.0002
12/20/2018		<0.0002			
8/27/2019	<0.0002			<0.0002	<0.0002
8/28/2019		<0.0002	<0.0002		
8/19/2020	8.3E-05 (J)	<0.0002	9.8E-05 (J)	8.2E-05 (J)	8.2E-05 (J)
9/15/2020	<0.0002		<0.0002		
9/16/2020		<0.0002		<0.0002	<0.0002
3/2/2021	<0.0002				
3/3/2021		<0.0002	<0.0002	<0.0002	
3/4/2021					<0.0002
9/28/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/2/2022	<0.0002			<0.0002	<0.0002
2/3/2022			<0.0002		
2/4/2022		<0.0002			
8/23/2022	<0.0002				
8/24/2022			<0.0002	<0.0002	
8/25/2022		<0.0002			<0.0002
1/24/2023					<0.0002
1/25/2023		<0.0002			
1/26/2023	<0.0002		<0.0002	<0.0002	
8/25/2023				<0.0002	<0.0002
8/29/2023	<0.0002	<0.0002	<0.0002		
2/2/2024				<0.0002	<0.0002
2/5/2024	<0.0002	<0.0002	0.00078		
8/27/2024		<0.0002	<0.0002		
8/28/2024				<0.0002	<0.0002
8/29/2024	<0.0002				
Mean	0.0001854	0.0001841	0.0002099	0.0001785	0.0001827
Std. Dev.	4.425E-05	4.777E-05	0.0001467	5.146E-05	4.107E-05
Upper Lim.	0.0002	0.0002	0.00078	0.0002	0.0002
Lower Lim.	8.3E-05	5E-05	9.8E-05	8.2E-05	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
9/6/2016			<0.01				
9/8/2016	<0.01	<0.001					
11/17/2016	<0.01						
11/18/2016		<0.001					
11/21/2016			<0.01				
2/21/2017	<0.01	<0.001					
2/22/2017			<0.01				
6/13/2017	<0.01	<0.001					
6/14/2017			<0.01				
9/27/2017	<0.01	<0.001	<0.01				
2/14/2018	<0.01	<0.001	<0.01				
3/6/2018				<0.0002	<0.01		
5/1/2018				<0.0002	<0.01 (D)		
6/26/2018	<0.01						
6/27/2018		<0.001			<0.01		
6/28/2018			<0.01	<0.0002			
7/31/2018				<0.0002			
8/1/2018					<0.01		
8/10/2018						0.0032 (J)	
8/23/2018				<0.0002	<0.01	0.005 (J)	
9/19/2018				<0.0002	<0.01	0.0061 (J)	
10/29/2018				<0.0002	<0.01	0.0065 (J)	
11/28/2018				<0.0002	<0.01	0.0027 (J)	
12/18/2018	<0.01		<0.01				
12/19/2018					<0.01		
12/20/2018		<0.001		<0.0002		<0.01	
1/17/2019						<0.01	
2/13/2019						<0.01	
8/27/2019	<0.01		<0.01				
8/28/2019		<0.001		<0.0002	<0.01		
8/29/2019						<0.01	
10/15/2019	<0.01						
10/16/2019					<0.01	<0.01	
12/3/2019				<0.0002			
12/4/2019		<0.001	<0.01				
8/19/2020	0.00081 (J)	<0.001	0.00078 (J)				
8/20/2020				0.00076 (J)	<0.01	0.0012 (J)	
9/15/2020	0.0008 (J)						
9/16/2020		<0.001	0.0022 (J)	<0.0002	<0.01		
9/17/2020						0.0007 (J)	
3/2/2021	0.001 (J)			<0.0002	<0.01		
3/3/2021		<0.001	<0.01				
3/4/2021						0.001 (J)	
9/23/2021				<0.0002	<0.01		
9/28/2021	0.00089 (J)	<0.001	0.001 (J)			<0.01	
2/2/2022	0.0011 (J)		0.0012 (J)	<0.0002	<0.01	<0.01	
2/4/2022		<0.001					
8/23/2022	0.00105				0.000296 (J)		
8/24/2022			0.00141				
8/25/2022		<0.001		0.000424 (J)		0.000471 (J)	
1/25/2023		<0.001		0.000545 (J)		0.000609 (J)	
1/26/2023	0.00092 (J)		0.0014		0.00027 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
2/1/2023							0.0111
8/31/2023			0.00111				
9/6/2023	0.00141	<0.001		0.000356 (J)	0.000296 (J)	0.000782 (J)	
9/8/2023							0.00625
2/10/2024			0.00137		0.00028 (J)		
2/13/2024	0.0014	0.000213 (J)					
2/14/2024				<0.0002		0.000564 (J)	0.00598
8/27/2024		0.000211 (J)					
8/28/2024			0.00123		0.000252 (J)	0.000691 (J)	
8/29/2024	0.00123			0.000207 (J)			0.00702
Mean	0.00553	0.0009212	0.006085	0.0002615	0.007685	0.004976	0.007588
Std. Dev.	0.004588	0.0002425	0.004448	0.0001462	0.004243	0.004179	0.002383
Upper Lim.	0.01	0.001	0.01	0.000207	0.01	0.01	0.0134
Lower Lim.	0.001	0.000213	0.00123	0.0002	0.000296	0.0007	0.003249

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				<0.005			
9/8/2016	<0.005	0.0043 (J)	0.0039 (J)		<0.01		
11/17/2016	<0.005						
11/18/2016		0.0047 (J)					
11/21/2016			0.0058 (J)	<0.005	<0.01		
2/21/2017	<0.005	0.0025 (J)					
2/22/2017			0.005 (J)	<0.005	0.0017 (J)		
6/13/2017	<0.005	0.0036 (J)					
6/14/2017			0.0074 (J)	0.0045 (J)	<0.01		
9/27/2017	<0.005	0.004 (J)	0.0068 (J)	0.0034 (J)	0.0019 (J)		
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.01		
3/6/2018						<0.005	<0.005
5/1/2018						<0.005	<0.005 (D)
6/26/2018	<0.005						
6/27/2018		0.0014 (J)	<0.005		0.0017 (J)		<0.005
6/28/2018				<0.005		<0.005	
7/31/2018						<0.005	
8/1/2018							0.0015 (J)
8/23/2018						<0.005	<0.005 (X)
9/19/2018						<0.005	0.002 (J)
10/29/2018						<0.005	<0.005
11/28/2018						<0.005	<0.005
12/18/2018	<0.005		<0.005	<0.005			
12/19/2018					0.0059 (J)		<0.005
12/20/2018		<0.005				<0.005	
8/27/2019	<0.005			0.0038 (J)	0.057		
8/28/2019		0.0017 (J)	<0.005			<0.005	<0.005
10/15/2019	<0.005						
10/16/2019			<0.005				0.0017 (J)
12/3/2019						0.0029 (J)	
12/4/2019		0.0036 (J)		0.0018 (J)	0.1		
3/4/2020	<0.005	0.0022 (J)	0.0018 (J)				<0.005
3/5/2020				<0.005	0.1	<0.005	
5/12/2020					0.0989		
8/19/2020	<0.005	<0.005	<0.005	<0.005	0.099		
8/20/2020						<0.005	0.0016 (J)
9/15/2020	<0.005		<0.005				
9/16/2020		0.0042 (J)		<0.005	0.12	<0.005	0.002 (J)
3/2/2021	0.0021 (J)					<0.005	0.0028 (J)
3/3/2021		0.0031 (J)	0.0042 (J)	<0.005			
3/4/2021					0.14		
9/23/2021						<0.005	<0.005
9/28/2021	<0.005	<0.005	0.0022 (J)	<0.005	0.13		
2/2/2022	<0.005			<0.005	0.21	<0.005	<0.005
2/3/2022			<0.005				
2/4/2022		<0.005					
8/23/2022	<0.005						<0.005
8/24/2022			<0.005	<0.005			
8/25/2022		<0.005			0.218	<0.005	
1/24/2023					0.198		
1/25/2023		<0.005				<0.005	
1/26/2023	<0.005		<0.005	<0.005			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
8/31/2023				<0.005	0.21		
9/6/2023	<0.005	<0.005	<0.005			<0.005	<0.005
2/10/2024				<0.005	0.17		<0.005
2/13/2024	<0.005	<0.005	0.00229 (J)				
2/14/2024						<0.005	
8/27/2024		<0.005	<0.005				
8/28/2024				<0.005	0.0945		<0.005
8/29/2024	<0.005					<0.005	
Mean	0.004862	0.004062	0.004733	0.00469	0.139	0.004905	0.004164
Std. Dev.	0.0006328	0.001209	0.001331	0.0007899	0.05274	0.0004477	0.001417
Upper Lim.	0.005	0.005	0.005	0.005	0.1763	0.005	0.005
Lower Lim.	0.0021	0.0031	0.0042	0.0045	0.1016	0.0029	0.0028

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I
9/8/2016	<0.002
11/21/2016	0.0002 (J)
2/22/2017	0.0002 (J)
6/14/2017	0.0002 (J)
9/27/2017	0.0002 (J)
2/14/2018	0.00018 (J)
6/27/2018	0.00017 (J)
12/18/2018	0.00017 (J)
8/28/2019	0.00017 (J)
10/16/2019	0.00017 (J)
3/4/2020	0.00016 (J)
8/19/2020	0.00016 (J)
9/15/2020	0.00016 (J)
3/3/2021	0.00018 (J)
9/28/2021	<0.002
2/3/2022	<0.002
8/24/2022	<0.002
1/26/2023	<0.002
9/6/2023	<0.002
2/13/2024	<0.002
8/27/2024	<0.002
Mean	0.0008724
Std. Dev.	0.0009065
Upper Lim.	0.002
Lower Lim.	0.00017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/21/2025 1:51 PM View: Pond BCD - Confidence Intervals (Non-Parametric)
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-68D
2/1/2023	4.16
9/22/2023	1.62
2/29/2024	2.16
8/29/2024	5.43
Mean	3.343
Std. Dev.	1.769
Upper Lim.	5.43
Lower Lim.	1.62

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 2:03 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0004853**	**-113**	**-66**	**Yes**	**21**	**28.57**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002793**	**-150**	**-66**	**Yes**	**21**	**9.524**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009113**	**-89**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-63I**	**0.005376**	**13**	**12**	**Yes**	**6**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**BRGWC-32S**	**0.02939**	**41**	**37**	**Yes**	**14**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

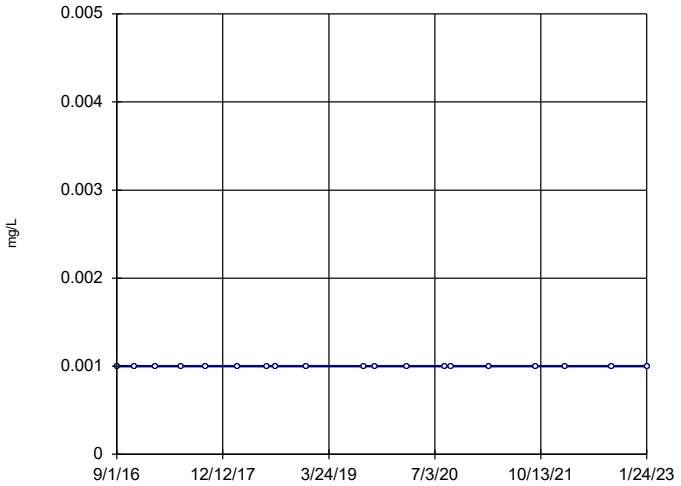
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/21/2025, 2:03 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0004853**	**-113**	**-66**	**Yes**	**21**	**28.57**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-64	-66	No	21	57.14	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002793**	**-150**	**-66**	**Yes**	**21**	**9.524**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009113**	**-89**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	25	66	No	21	71.43	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	21	66	No	21	76.19	n/a	0.05	NP
Cobalt (mg/L)	**PZ-63I**	**0.005376**	**13**	**12**	**Yes**	**6**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	0	-6	-66	No	21	42.86	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2I (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	**BRGWC-32S**	**0.02939**	**41**	**37**	**Yes**	**14**	**0**	**n/a**	**0.05**	**NP**

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 58

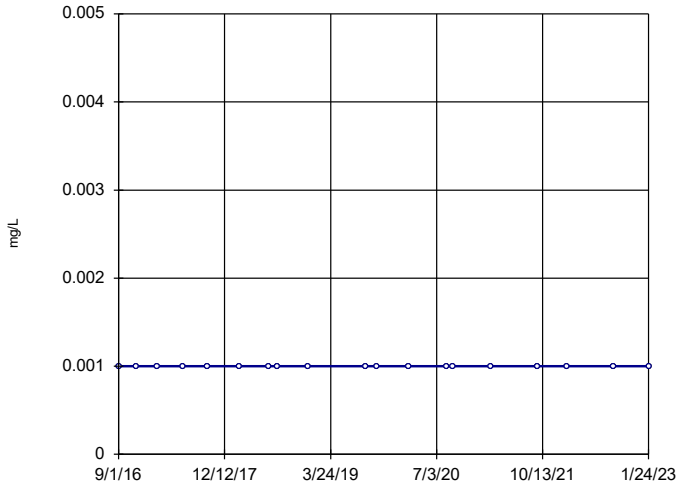
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 58

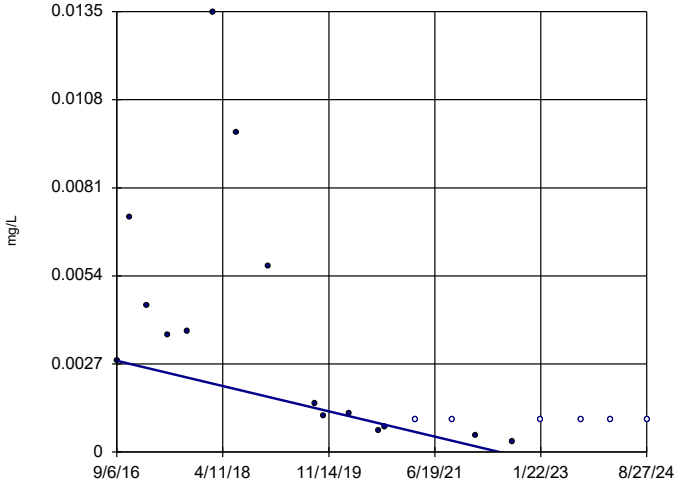
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 21

Slope = -0.0004853
units per year.

Mann-Kendall
statistic = -113
critical = -66

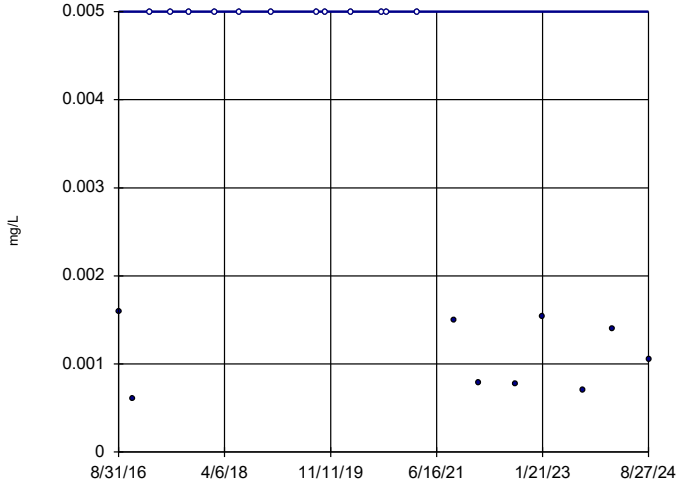
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = -64
critical = -66

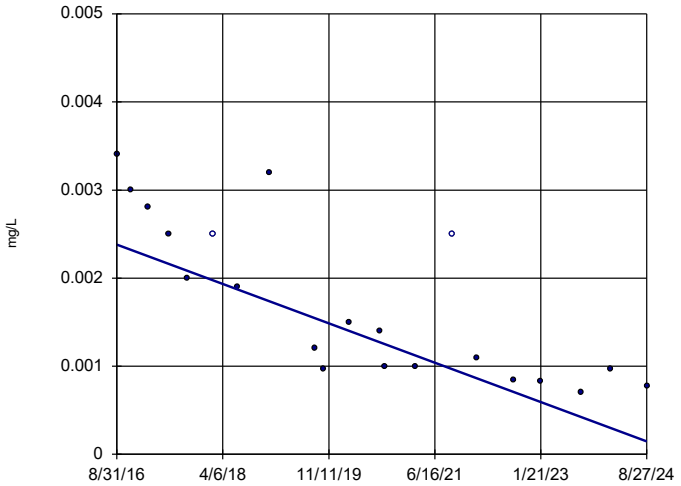
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = -0.0002793 units per year.

Mann-Kendall statistic = -150
critical = -66

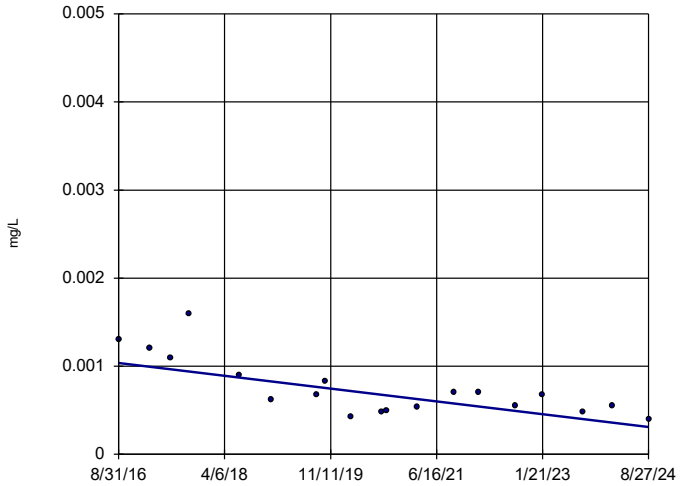
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = -0.00009113 units per year.

Mann-Kendall statistic = -89
critical = -58

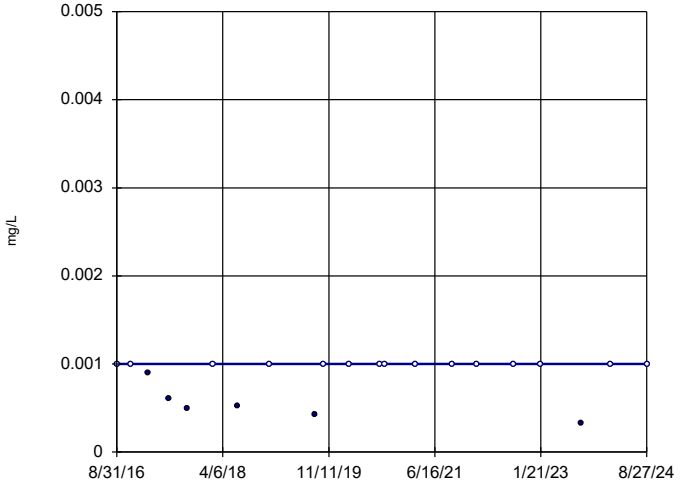
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 25
critical = 66

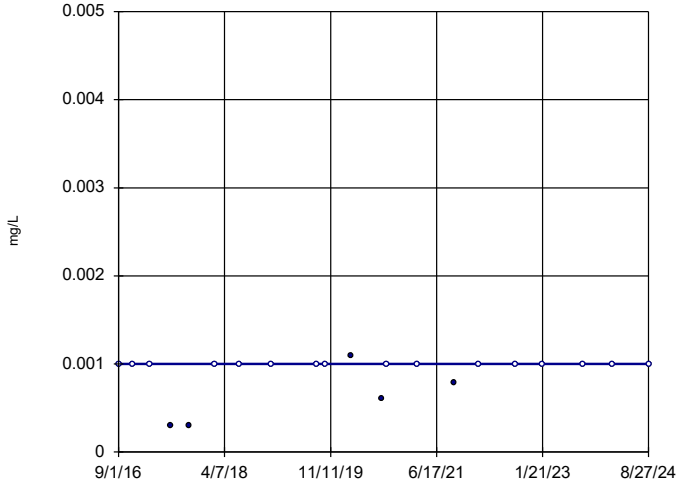
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 21
critical = 66

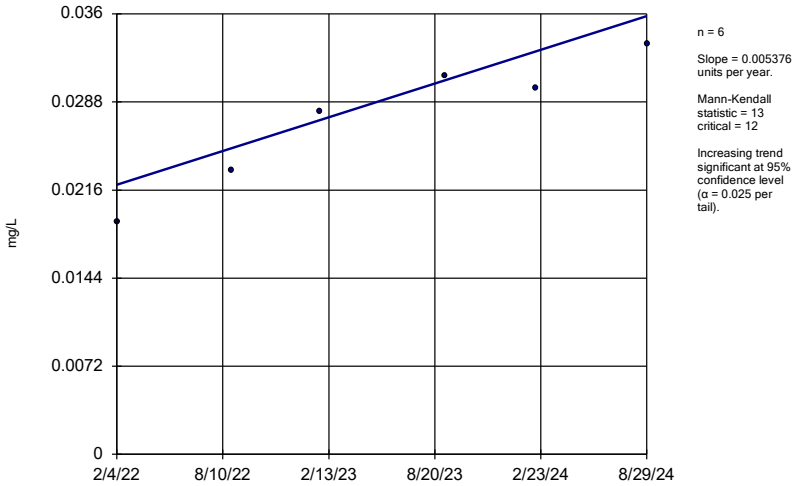
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-63I



n = 6

Slope = 0.005376 units per year.

Mann-Kendall statistic = 13
critical = 12

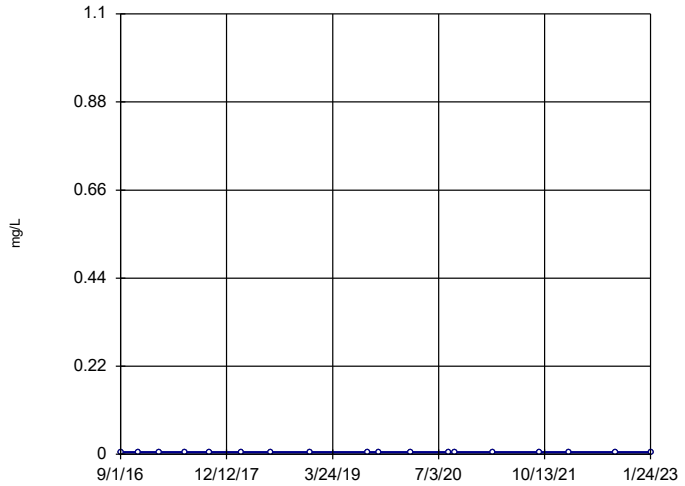
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 53

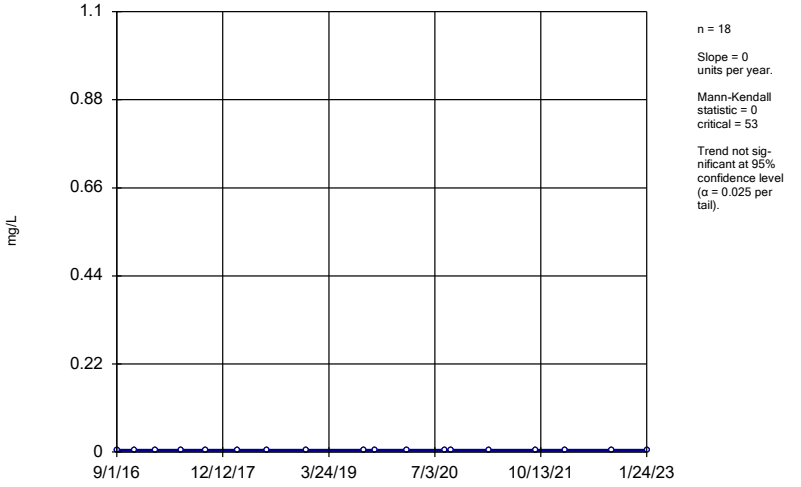
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 53

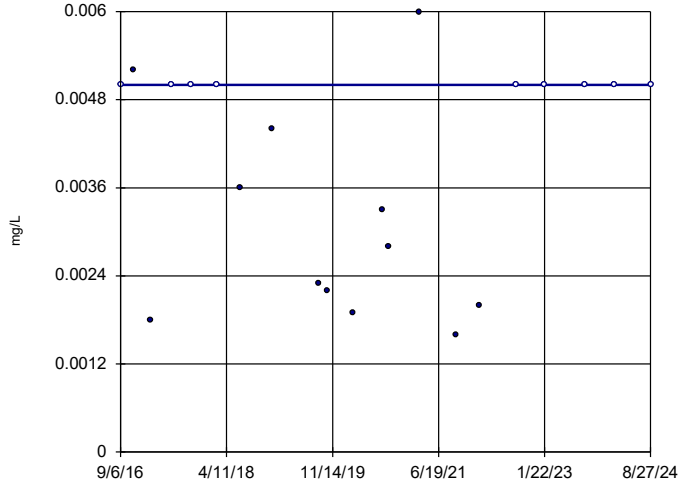
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -66

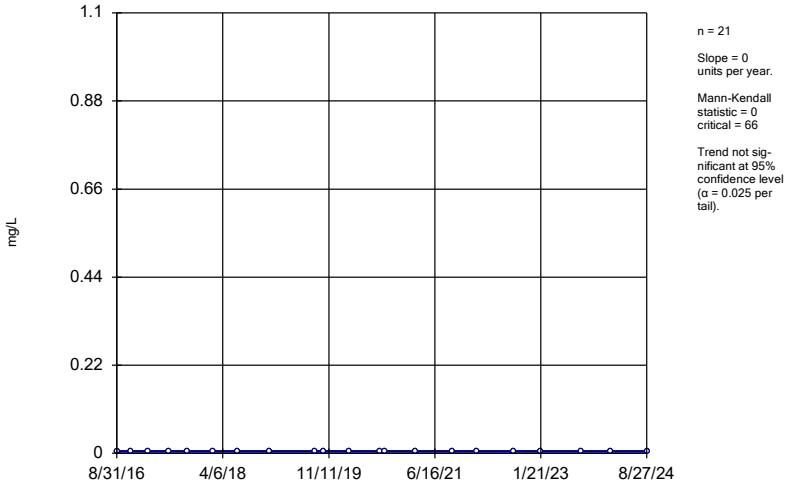
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)

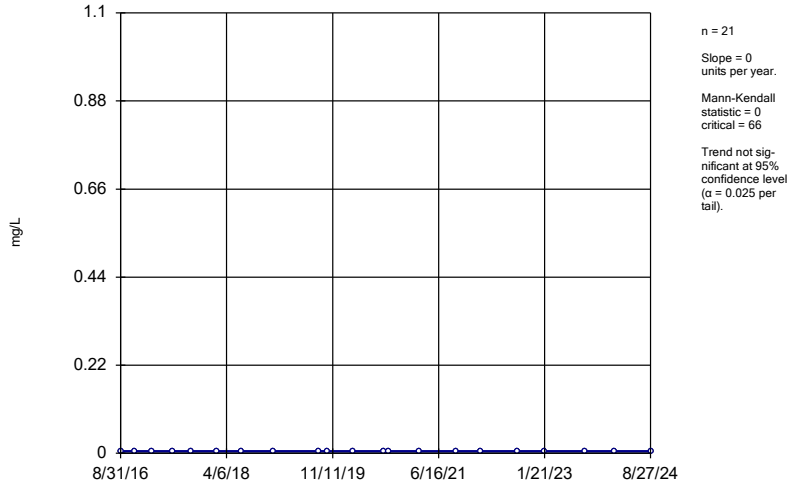


Constituent: Selenium Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)

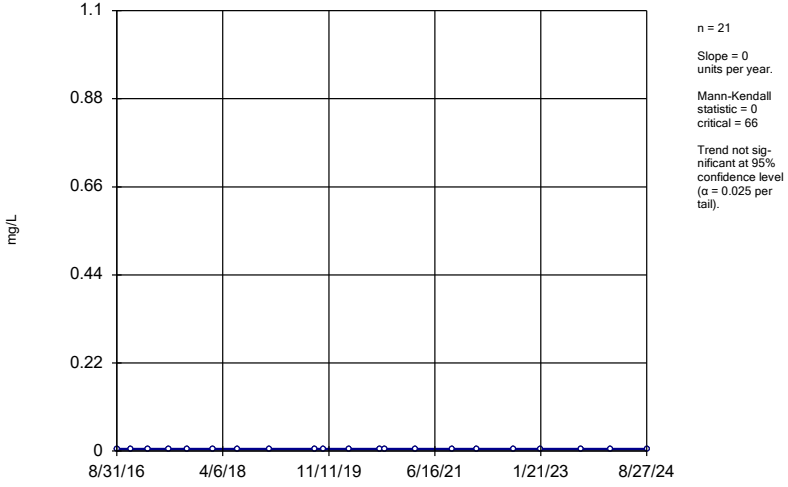


Constituent: Selenium Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)

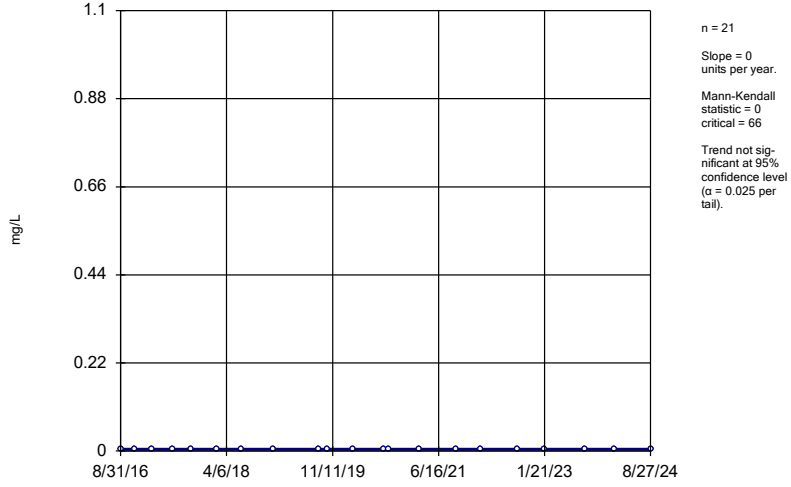


Constituent: Selenium Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)

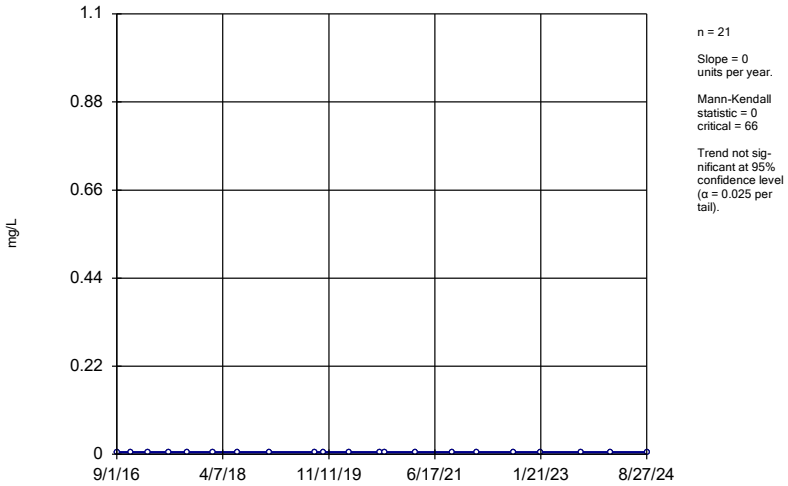


Constituent: Selenium Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 66

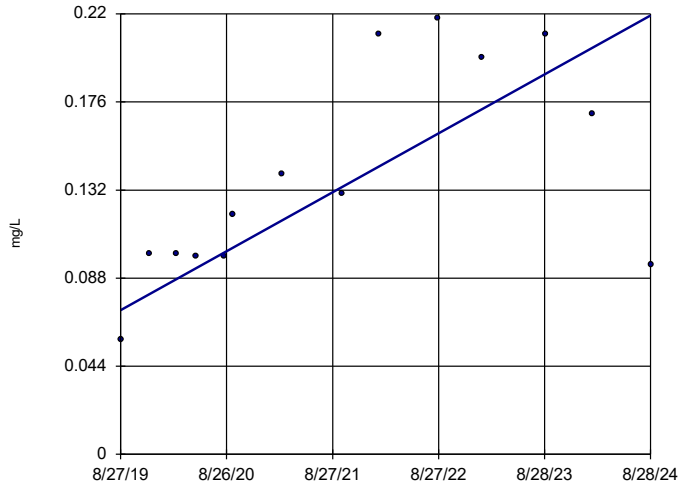
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-32S



n = 14

Slope = 0.02939 units per year.

Mann-Kendall statistic = 41
critical = 37

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/21/2025 1:56 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

GROUNDWATER STATS CONSULTING

July 31, 2025

Southern Company Services
Attn: Mr. Chris Tidwell
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Branch Ponds B, C, D – February 2025 Statistical Analysis

Dear Mr. Tidwell,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2025 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Ponds B, C, and D. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 for most wells. However, sampling for wells BRGWC-45, BRGWC-47, and BRGWC-52I began in 2018. Semi-annual sampling of the majority of constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations.

The current monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, BRGWA-6S, and BRGWA-23S
- **Downgradient wells:** BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-45, BRGWC-47, BRGWC-52I, and PZ-63I
- **Assessment wells:** PZ-68D, PZ-74I, and PZ-75I

Previously, the monitoring well network included upgradient wells BRGWA-12I and BRGWA-12S and several assessment wells which have since been abandoned. While those

assessment wells are no longer included in the statistical analysis per request of Geosyntec Consultants, Inc., data from upgradient wells BRGWA-12I and BRGWA-12S will continue to be included in construction of interwell prediction limits and interwell upper tolerance limits since the data represent historical groundwater quality upgradient of the facility.

Data from newer assessment wells PZ-74I and PZ-75I, which were first sampled in September 2023, have at least 4 samples; therefore, data from these wells are plotted on time series and box plots, and are evaluated with confidence intervals. Downgradient well BRGWC-44 was previously designated as assessment well PZ-44 and has been reclassified. Data from this well are analyzed for all Appendix III constituents and Appendix IV constituents using interwell prediction limits and confidence intervals, respectively. Similarly, downgradient well PZ-63I was previously designated as an assessment well and has been reclassified. Data from well PZ-63I are plotted on time series and box plots and will be evaluated with prediction limits and confidence intervals when at least 8 observations have been collected. Note that a confidence interval was constructed for cobalt at well PZ-63I and is discussed below.

Data were sent electronically to GSC, and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data were then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis. Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. This generally gives the most conservative limit in each case.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Assessment well data are included on the time series graphs, and are included with the confidence intervals when a minimum of 4 samples is available as discussed above. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The

distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the most reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in

the outlier summary. Although outliers are screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits. The current list of outliers includes a few additional measurements that were not flagged as outliers in the previous background screening list for Appendix III parameters.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, several outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as the measurements may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Tests

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses, included with the background screening report, showed a number of statistically significant decreasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets at that time.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – February 2025

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2025 (Figure D). Background (upgradient) well data were reassessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. As mentioned above, data from abandoned upgradient wells BRGWA-12I and BRGWA-12S are included in calculations for interwell prediction limits. The February 2025 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance

is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for several Appendix III parameters. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-47, and BRGWC-52I
- Calcium: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-45, BRGWC-47, and BRGWC-52I
- Chloride: BRGWC-25I, BRGWC-29I, BRGWC-44, BRGWC-45, and BRGWC-52I
- pH (lower limit): BRGWC-27I and BRGWC-29I
- Sulfate: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, and BRGWC-52I
- TDS: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, and BRGWC-52I

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter and statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BRGWC-47
- Calcium: BRGWA-2S, BRGWA-6S (both upgradient), and BRGWC-30I
- pH: BRGWC-27I
- Sulfate: BRGWC-30I
- TDS: BRGWC-30I

Decreasing:

- Boron: BRGWC-32S and BRGWC-44
- Calcium: BRGWA-5S, BRGWA-23S (both upgradient) and BRGWC-32S
- Chloride: BRGWA-12I, BRGWA-23S, BRGWA-5I, BRGWA-5S (all four upgradient), and BRGWC-45
- pH: BRGWA-2I, BRGWA-2S, and BRGWA-5S (all three upgradient), and BRGWC-47
- Sulfate: BRGWA-2, BRGWA-12I BRGWA-12S, BRGWA-23S (all four upgradient), BRGWC-25I, BRGWC-27I, BRGWC-32S, and BRGWC-47
- TDS: BRGWA-23S, BRGWA-5S (both upgradient), BRGWC-27I, BRGWC-32S, BRGWC-45, and BRGWC-47

Evaluation of Appendix IV Parameters – February 2025

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. As a result of the data received from the EQuIS database, some of the reported measurements in upgradient well BRGWA-5I for cobalt were different from those historically used in the Sanitas database. The previously flagged non-detect observation of 0.01 mg/L during the November 2016 event was unflagged during this analysis since the value is currently a reported trace value of 0.0012 mg/L. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2025 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G). Note that due to the steady increase in concentrations for antimony at upgradient well BRGWA-12I, the MCL was used in lieu of the Background limit for antimony to maintain a GWPS that is conservative from a regulatory perspective.

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for Appendix IV constituents in each downgradient with a minimum of 8 samples and assessment wells with a minimum of 4 samples (Figure H). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above.

When evaluating the entire record of data for selenium at downgradient well BRGWC-32S, a steady increasing trend in concentrations since 2019 was noted. Therefore, the record was truncated so that the confidence interval evaluates data since 2019 for this

well/constituent pair (USEPA Unified Guidance, 2009, Chapter 7). Trend tests using both the full and truncated record for selenium at downgradient well BRGWC-32S follow this report (Figure I). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Statistical exceedances were identified for the following well/constituent pair:

- Cobalt: PZ-63I
- Selenium: BRGWC-32S and PZ-75I

As mentioned earlier, a confidence interval was included for cobalt at downgradient well PZ-63I even though there are currently less than 8 observations. This well/constituent pair had been reported as an exceedance during previous reports and will continue to be included in confidence interval reporting. An Alternate Source Demonstration (ASD) has been, reportedly, performed for this well/constituent pair.

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure J). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Selenium: BRGWC-32S
- Cobalt: PZ-63I

Decreasing:

- Cobalt: BRGWA-2I, BRGWA-2S, BRGWA-5I, and BRGWA-23S (all upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Ponds B, C, D. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

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Summary Tables

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Date Ranges

Date: 4/28/2025 11:46 AM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Selenium (mg/L)

BRGWC-32S overall:8/27/2019-2/19/2025

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Antimony (mg/L)
BRGWC-25I, BRGWC-27I, BRGWC-44, PZ-74I, PZ-75I

Arsenic (mg/L)
PZ-74I, PZ-75I

Beryllium (mg/L)
BRGWC-25I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-52I, PZ-68D, PZ-74I, PZ-75I

Cadmium (mg/L)
BRGWC-25I, BRGWC-29I, BRGWC-44, BRGWC-52I, PZ-68D, PZ-74I, PZ-75I

Chromium (mg/L)
BRGWC-44, PZ-68D, PZ-74I, PZ-75I

Lead (mg/L)
BRGWC-32S, BRGWC-44, PZ-74I, PZ-75I

Lithium (mg/L)
BRGWC-25I

Mercury (mg/L)
BRGWC-44, BRGWC-45, BRGWC-47, BRGWC-52I, PZ-68D, PZ-75I

Molybdenum (mg/L)
BRGWC-29I, BRGWC-32S, BRGWC-44, PZ-75I

Thallium (mg/L)
BRGWC-25I, BRGWC-27I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-45, BRGWC-47, BRGWC-52I, PZ-68D, PZ-74I, PZ-75I

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:18 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	2/19/2025	1.63	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	2/19/2025	1.02	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	2/19/2025	1.56	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	2/19/2025	1.92	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	2/19/2025	1.05	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-44	0.068	n/a	2/19/2025	1.13	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	2/18/2025	0.682	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	2/19/2025	1.67	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	2/19/2025	73	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	2/19/2025	46.4	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	2/19/2025	119	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	2/19/2025	442	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	2/19/2025	37.7	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-44	24	n/a	2/19/2025	24.5	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	2/19/2025	44.3	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	2/18/2025	322	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	2/19/2025	40.1	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	2/19/2025	12.5	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	2/19/2025	8.25	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-44	5.8	n/a	2/19/2025	6.18	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	2/19/2025	21.2	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	2/19/2025	6.43	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
pH, Field (SU)	BRGWC-27I	7.032	5.543	2/19/2025	5.44	Yes	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-29I	7.032	5.543	2/19/2025	3.91	Yes	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	2/19/2025	204	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	2/19/2025	134	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	2/19/2025	346	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	2/19/2025	1310	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	2/19/2025	196	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	2/19/2025	169	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	2/18/2025	1340	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	2/19/2025	149	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
TDS (mg/L)	BRGWC-25I	183	n/a	2/19/2025	419	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-27I	183	n/a	2/19/2025	222	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-29I	183	n/a	2/19/2025	519	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-30I	183	n/a	2/19/2025	2120	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-32S	183	n/a	2/19/2025	351	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-45	183	n/a	2/19/2025	348	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-47	183	n/a	2/18/2025	1960	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-52I	183	n/a	2/19/2025	298	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:18 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-25I**	**0.068**	**n/a**	**2/19/2025**	**1.63**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-27I**	**0.068**	**n/a**	**2/19/2025**	**1.02**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-29I**	**0.068**	**n/a**	**2/19/2025**	**1.56**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-30I**	**0.068**	**n/a**	**2/19/2025**	**1.92**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-32S**	**0.068**	**n/a**	**2/19/2025**	**1.05**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-44**	**0.068**	**n/a**	**2/19/2025**	**1.13**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-45	0.068	n/a	2/19/2025	0.0537	No	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-47**	**0.068**	**n/a**	**2/18/2025**	**0.682**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-52I**	**0.068**	**n/a**	**2/19/2025**	**1.67**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-25I**	**24**	**n/a**	**2/19/2025**	**73**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-27I**	**24**	**n/a**	**2/19/2025**	**46.4**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-29I**	**24**	**n/a**	**2/19/2025**	**119**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-30I**	**24**	**n/a**	**2/19/2025**	**442**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-32S**	**24**	**n/a**	**2/19/2025**	**37.7**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-44**	**24**	**n/a**	**2/19/2025**	**24.5**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-45**	**24**	**n/a**	**2/19/2025**	**44.3**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-47**	**24**	**n/a**	**2/18/2025**	**322**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-52I**	**24**	**n/a**	**2/19/2025**	**40.1**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-25I**	**5.8**	**n/a**	**2/19/2025**	**12.5**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-27I	5.8	n/a	2/19/2025	3.08	No	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-29I**	**5.8**	**n/a**	**2/19/2025**	**8.25**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-30I	5.8	n/a	2/19/2025	2.9	No	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	2/19/2025	3.9	No	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-44**	**5.8**	**n/a**	**2/19/2025**	**6.18**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-45**	**5.8**	**n/a**	**2/19/2025**	**21.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-47	5.8	n/a	2/18/2025	4.54	No	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-52I**	**5.8**	**n/a**	**2/19/2025**	**6.43**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	2/19/2025	0.281	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	2/19/2025	0.0997J	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	2/19/2025	0.129	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	2/19/2025	0.194	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	2/19/2025	0.0774J	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-44	0.42	n/a	2/19/2025	0.127	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	2/19/2025	0.142	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	2/18/2025	0.189	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	2/19/2025	0.152	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
pH, Field (SU)	BRGWC-25I	7.032	5.543	2/19/2025	6.13	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	**BRGWC-27I**	**7.032**	**5.543**	**2/19/2025**	**5.44**	**Yes**	**182**	**6.288**	**0.3832**	**0**	**None**	**No**	**0.0003761**	**Param Inter 1 of 2**
pH, Field (SU)	**BRGWC-29I**	**7.032**	**5.543**	**2/19/2025**	**3.91**	**Yes**	**182**	**6.288**	**0.3832**	**0**	**None**	**No**	**0.0003761**	**Param Inter 1 of 2**
pH, Field (SU)	BRGWC-30I	7.032	5.543	2/19/2025	6.37	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-32S	7.032	5.543	2/19/2025	6.11	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-44	7.032	5.543	2/19/2025	6.2	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-45	7.032	5.543	2/19/2025	5.78	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-47	7.032	5.543	2/18/2025	5.73	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-52I	7.032	5.543	2/19/2025	6.26	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	PZ-63I	7.032	5.543	2/19/2025	5.59	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	**BRGWC-25I**	**89**	**n/a**	**2/19/2025**	**204**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-27I**	**89**	**n/a**	**2/19/2025**	**134**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-29I**	**89**	**n/a**	**2/19/2025**	**346**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-30I**	**89**	**n/a**	**2/19/2025**	**1310**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-32S**	**89**	**n/a**	**2/19/2025**	**196**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-44	89	n/a	2/19/2025	41.1	No	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-45**	**89**	**n/a**	**2/19/2025**	**169**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-47**	**89**	**n/a**	**2/18/2025**	**1340**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-52I**	**89**	**n/a**	**2/19/2025**	**149**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**BRGWC-25I**	**183**	**n/a**	**2/19/2025**	**419**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-27I**	**183**	**n/a**	**2/19/2025**	**222**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-29I**	**183**	**n/a**	**2/19/2025**	**519**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-30I**	**183**	**n/a**	**2/19/2025**	**2120**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-32S**	**183**	**n/a**	**2/19/2025**	**351**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	BRGWC-44	183	n/a	2/19/2025	131	No	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**BRGWC-45**	**183**	**n/a**	**2/19/2025**	**348**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-47**	**183**	**n/a**	**2/18/2025**	**1960**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-52I**	**183**	**n/a**	**2/19/2025**	**298**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Appendix III - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-32S	-0.05906	-110	-98	Yes	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-44	-0.1408	-33	-30	Yes	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03355	119	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.2165	120	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5678	-91	-87	Yes	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1143	117	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.23	-139	-87	Yes	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	47.49	185	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-32S	-3.162	-111	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1082	-93	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.06833	-118	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2302	-149	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-6.482	-147	-92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-2I (bg)	-0.07589	-153	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-2S (bg)	-0.03954	-167	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-5S (bg)	-0.04151	-111	-98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-27I	0.05483	134	111	Yes	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2I (bg)	-0.3354	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-8.312	-126	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-15.45	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-16.59	-163	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	121.1	148	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-25.33	-147	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-37.24	-107	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-5S (bg)	-7.447	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-23S (bg)	-10.83	-127	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-27I	-19.7	-127	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-30I	196.4	164	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-32S	-36.54	-170	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-45	-18.05	-112	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-47	-35.68	-94	-87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.0002989	56	87	No	21	38.1	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-7	-87	No	21	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-25	-87	No	21	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-34	-87	No	21	52.38	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-2	-87	No	21	76.19	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.0003656	9	87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	0	3	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.04276	-61	-98	No	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-29I	-0.07557	-85	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-30I	0.05352	83	92	No	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-32S**	**-0.05906**	**-110**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-44**	**-0.1408**	**-33**	**-30**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-47**	**0.03355**	**119**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-52I	0.03437	58	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.04047	11	87	No	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.2165**	**120**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.2594	72	87	No	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-5S (bg)**	**-0.5678**	**-91**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1143**	**117**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-23S (bg)**	**-1.23**	**-139**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-25I	-1.532	-30	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-27I	-2.086	-83	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-29I	-0.7161	-18	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-30I**	**47.49**	**185**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-32S**	**-3.162**	**-111**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-44	0	1	30	No	10	20	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-1.381	-66	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-47	-0.4011	-9	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.3449	-23	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.001602	-15	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0.03055	36	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1082**	**-93**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06833**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	-0.002974	-26	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-12I (bg)**	**-0.1919**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-23S (bg)**	**-0.2302**	**-149**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-25I	0	1	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.003926	-6	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-44	0.06258	12	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-45**	**-6.482**	**-147**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-52I	-0.1234	-83	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWA-2I (bg)**	**-0.07589**	**-153**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**BRGWA-2S (bg)**	**-0.03954**	**-167**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWA-5I (bg)	-0.01803	-61	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWA-5S (bg)**	**-0.04151**	**-111**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWA-6S (bg)	-0.01485	-31	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-12I (bg)	-0.02367	-31	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-12S (bg)	-0.01693	-51	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-23S (bg)	-0.01728	-36	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWC-27I**	**0.05483**	**134**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWC-29I	-0.01622	-47	-98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWA-2I (bg)**	**-0.3354**	**-88**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2S (bg)	-0.01804	-28	-87	No	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.1653	-72	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03376	-72	-87	No	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01017	-49	-87	No	21	19.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWA-12I (bg)**	**-0.2108**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12S (bg)**	**-0.126**	**-88**	**-68**	**Yes**	**18**	**16.67**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-23S (bg)**	**-8.312**	**-126**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-25I**	**-15.45**	**-88**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-27I**	**-16.59**	**-163**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-29I	-15.27	-59	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-30I**	**121.1**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Tests - All Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**BRGWC-32S**	**-25.33**	**-147**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-45	-0.3473	-5	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-47**	**-37.24**	**-107**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-52I	-4.041	-69	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-2I (bg)	-9.626	-85	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-2S (bg)	-1.234	-22	-87	No	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-5I (bg)	-3.51	-64	-87	No	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-133**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWA-6S (bg)	-2.111	-39	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWA-23S (bg)**	**-10.83**	**-127**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWC-25I	-23.3	-82	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWC-27I**	**-19.7**	**-127**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWC-29I	-27.14	-66	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWC-30I**	**196.4**	**164**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**BRGWC-32S**	**-36.54**	**-170**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**BRGWC-45**	**-18.05**	**-112**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**BRGWC-47**	**-35.68**	**-94**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWC-52I	-9.233	-80	-87	No	21	0	n/a	n/a	0.01	NP

Upper Tolerance Limits

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0245	n/a	n/a	n/a	n/a	168	85.12	n/a	0.000181	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	168	76.79	n/a	0.000181	NP Inter(NDs)
Barium (mg/L)	n/a	0.13	n/a	n/a	n/a	n/a	168	0	n/a	0.000181	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	168	100	n/a	0.000181	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	170	98.82	n/a	0.0001633	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	n/a	168	22.02	n/a	0.000181	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0135	n/a	n/a	n/a	n/a	169	55.03	n/a	0.0001719	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	2.355	n/a	n/a	n/a	n/a	168	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.42	n/a	n/a	n/a	n/a	176	45.45	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	168	89.29	n/a	0.000181	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	n/a	168	42.26	n/a	0.000181	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	n/a	152	90.13	n/a	0.0004111	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.008	n/a	n/a	n/a	n/a	165	73.33	n/a	0.0002111	NP Inter(NDs)
Selenium (mg/L)	n/a	0.006	n/a	n/a	n/a	n/a	168	92.26	n/a	0.000181	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	168	100	n/a	0.000181	NP Inter(NDs)

PLANT BRANCH POND BCD GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.36	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

Confidence Interval Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**PZ-63I**	**0.03742**	**0.02107**	**0.014**	**Yes**	**7**	**0.006884**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**BRGWC-32S**	**0.1729**	**0.1037**	**0.05**	**Yes**	**16**	**0.05314**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**PZ-75I**	**0.1303**	**0.05619**	**0.05**	**Yes**	**5**	**0.02211**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.003	0.0007	0.006	No	22	0.0004904	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.003	0.0013	0.006	No	22	0.0003624	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.003	0.0014	0.006	No	22	0.0003411	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.003	0.0024	0.006	No	23	0.0008192	69.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.003	0.00035	0.006	No	23	0.0005526	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.003	0.00091	0.006	No	22	0.0008014	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-68D	0.003	0.00176	0.006	No	5	0.0005545	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.005	0.00091	0.01	No	22	0.001704	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.005	0.0014	0.01	No	22	0.001573	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.005	0.0019	0.01	No	22	0.001834	68.18	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	22	0.001502	77.27	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.005	0.00053	0.01	No	22	0.000953	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-44	0.005	0.00221	0.01	No	10	0.001487	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.005	0.0018	0.01	No	23	0.001816	65.22	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.002416	0.001286	0.01	No	23	0.001744	34.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BRGWC-52I	0.005	0.0031	0.01	No	22	0.001409	54.55	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-68D	0.0058	0.00342	0.01	No	5	0.0008681	60	None	No	0.031	NP (NDs)
Barium (mg/L)	BRGWC-25I	0.033	0.02662	2	No	22	0.006345	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01688	0.01527	2	No	22	0.001497	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01877	0.01698	2	No	22	0.001669	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03167	0.02452	2	No	22	0.00666	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.03767	0.02446	2	No	22	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-44	0.05411	0.04885	2	No	10	0.002951	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.08791	0.06897	2	No	23	0.01811	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.03928	0.03156	2	No	23	0.007379	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02926	0.01894	2	No	22	0.009604	0	None	No	0.01	Param.
Barium (mg/L)	PZ-68D	0.146	0.0591	2	No	5	0.02593	0	None	No	0.01	Param.
Barium (mg/L)	PZ-74I	0.0588	0.01333	2	No	5	0.01496	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-75I	0.06065	0.0185	2	No	4	0.009281	0	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-27I	0.0005	0.00011	0.004	No	23	0.0001813	34.78	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.00109	0.0008439	0.004	No	22	0.0002288	4.545	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0005	0.000079	0.004	No	24	0.0001236	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0005	0.00006	0.004	No	23	0.0001727	82.61	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-27I	0.001	0.00009	0.005	No	23	0.0002651	91.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.001	0.00014	0.005	No	23	0.0002566	91.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-32S	0.001	0.00012	0.005	No	23	0.0003479	82.61	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.001	0.00029	0.005	No	24	0.0003469	79.17	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.001	0.00018	0.005	No	23	0.0004199	56.52	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-25I	0.01	0.0016	0.1	No	22	0.002565	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-27I	0.01	0.003	0.1	No	22	0.002374	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-29I	0.02	0.01	0.1	No	22	0.002132	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-30I	0.014	0.0051	0.1	No	22	0.00138	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.01	0.0019	0.1	No	22	0.004263	50	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.01	0.0014	0.1	No	23	0.00311	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.01	0.0018	0.1	No	23	0.00348	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-52I	0.01	0.0017	0.1	No	22	0.00177	95.45	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-25I	0.005631	0.003468	0.014	No	22	0.002149	4.545	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-27I	0.00965	0.006652	0.014	No	23	0.002867	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-29I	0.009129	0.006725	0.014	No	22	0.002375	4.545	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-30I	0.00163	0.001	0.014	No	23	0.006465	13.04	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.0025	0.001	0.014	No	23	0.0003128	91.3	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-44	0.001	0.001	0.014	No	10	0.0001872	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01196	0.004379	0.014	No	24	0.01349	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.001007	0.0004204	0.014	No	23	0.001548	39.13	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-52I	0.0012	0.00063	0.014	No	22	0.0008989	59.09	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**PZ-63I**	**0.03742**	**0.02107**	**0.014**	**Yes**	**7**	**0.006884**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-68D	0.001162	0.0003247	0.014	No	5	0.0002499	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-74I	0.002303	0.0002187	0.014	No	5	0.0007896	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	PZ-75I	0.001094	0	0.014	No	4	0.0002499	50	Kaplan-Meier	x^5	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-25I	2.136	0.7817	5	No	22	1.543	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-27I	1.659	0.805	5	No	22	0.7952	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-29I	2.04	1.306	5	No	22	0.6839	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-30I	1.857	0.8121	5	No	22	1.12	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.374	0.6042	5	No	22	0.7171	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-44	2.146	0.3744	5	No	10	1.077	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	1.054	0.4636	5	No	23	0.6503	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.949	0.9972	5	No	23	0.9103	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-52I	4.254	1.68	5	No	22	3.162	0	None	sqrt(x)	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	PZ-68D	5.851	0.2131	5	No	5	1.682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-74I	7.656	0.1821	5	No	5	3.148	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-75I	3.554	1.796	5	No	4	0.3873	0	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-25I	0.2476	0.1552	4	No	23	0.1185	4.348	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-27I	0.267	0.177	4	No	24	0.08816	8.333	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-29I	0.1828	0.09762	4	No	23	0.1119	8.696	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-30I	0.3105	0.148	4	No	23	0.1927	4.348	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.082	4	No	24	0.04291	45.83	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-44	0.2034	0.1006	4	No	10	0.08271	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BRGWC-45	0.163	0.078	4	No	24	0.2058	41.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.27	0.189	4	No	24	0.239	45.83	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-52I	0.2164	0.1386	4	No	22	0.07243	4.545	None	No	0.01	Param.
Fluoride (mg/L)	PZ-68D	0.2421	0.1003	4	No	5	0.04229	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-74I	0.2452	0.04471	4	No	5	0.05983	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-75I	0.1839	0.06942	4	No	5	0.03415	0	None	No	0.01	Param.
Lead (mg/L)	BRGWC-25I	0.002	0.00011	0.015	No	22	0.0004029	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.002	0.000063	0.015	No	22	0.000413	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.002	0.0003	0.015	No	21	0.0008126	38.1	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-30I	0.002	0.00011	0.015	No	22	0.0004029	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.002	0.000595	0.015	No	23	0.0006721	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.002	0.00012	0.015	No	23	0.0006619	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.002	0.000042	0.015	No	22	0.0004174	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-68D	0.002	0.000504	0.015	No	5	0.000669	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.01	0.0014	0.089	No	22	0.004198	36.36	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-29I	0.003684	0.003094	0.089	No	22	0.0005493	4.545	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.02124	0.01399	0.089	No	22	0.007052	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.00514	0.0021	0.089	No	22	0.006599	9.091	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-44	0.006445	0.004949	0.089	No	10	0.0008378	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-45	0.0043	0.003	0.089	No	22	0.002944	22.73	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-47	0.04552	0.04159	0.089	No	23	0.00376	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.01013	0.004516	0.089	No	22	0.006026	4.545	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	PZ-68D	0.009258	0.003217	0.089	No	5	0.002466	20	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	PZ-74I	0.00825	0.00692	0.089	No	5	0.0005531	0	None	No	0.031	NP (normality)
Lithium (mg/L)	PZ-75I	0.006613	0.002277	0.089	No	4	0.0009549	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.0002	0.000083	0.002	No	20	0.0000432	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.0002	0.00005	0.002	No	20	0.00004663	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.000384	0.000098	0.002	No	20	0.000148	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.0002	0.000082	0.002	No	20	0.00005032	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.0002	0.0001	0.002	No	20	0.00004016	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-74I	0.0002	0.000121	0.002	No	5	0.00003533	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.00092	0.1	No	21	0.004589	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BRGWC-27I	0.001	0.000213	0.1	No	21	0.000237	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.00123	0.1	No	21	0.00446	52.38	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.001	0.00076	0.1	No	22	0.00028	72.73	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	22	0.00443	72.73	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.0007	0.1	No	21	0.004172	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-68D	0.0111	0.00598	0.1	No	5	0.002165	0	None	No	0.031	NP (normality)
Molybdenum (mg/L)	PZ-74I	0.00276	0.000597	0.1	No	5	0.0008503	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BRGWC-25I	0.005	0.00217	0.05	No	22	0.0008431	90.91	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.005	0.0031	0.05	No	22	0.001197	45.45	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0045	0.05	No	22	0.0013	54.55	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.005	0.0045	0.05	No	22	0.0008371	77.27	None	No	0.01	NP (NDs)
Selenium (mg/L)	**BRGWC-32S**	**0.1729**	**0.1037**	**0.05**	**Yes**	**16**	**0.05314**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	BRGWC-44	0.005	0.005	0.05	No	10	0.0009424	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	BRGWC-45	0.005	0.0029	0.05	No	23	0.000686	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.005	0.0024	0.05	No	23	0.001432	69.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-52I	0.005	0.00198	0.05	No	22	0.0006439	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-68D	0.005	0.00205	0.05	No	5	0.001319	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	PZ-74I	0.07332	0.0214	0.05	No	5	0.01549	0	None	No	0.01	Param.
Selenium (mg/L)	**PZ-75I**	**0.1303**	**0.05619**	**0.05**	**Yes**	**5**	**0.02211**	**0**	**None**	**No**	**0.01**	**Param.**
Thallium (mg/L)	BRGWC-29I	0.002	0.00017	0.002	No	22	0.0009167	40.91	None	No	0.01	NP (normality)

Selenium BRGWC-32S Trend Test - All/Significant Result

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	**BRGWC-32S**	**0.02816**	**153**	**81**	**Yes**	**24**	**16.67**	**n/a**	**n/a**	**0.05**	**NP**

Selenium BRGWC-32S Trend Test Truncated Records - All Result (No Significant)

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	BRGWC-32S	0.02137	32	45	No	16	0	n/a	n/a	0.05	NP

Appendix IV - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:55 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**BRGWA-2I (bg)**	**-0.00005343**	**-81**	**-71**	**Yes**	**22**	**54.55**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002537**	**-153**	**-71**	**Yes**	**22**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00008865**	**-116**	**-66**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0004365**	**-120**	**-71**	**Yes**	**22**	**31.82**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-63I**	**0.006217**	**19**	**15**	**Yes**	**7**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**BRGWC-32S**	**0.02816**	**153**	**81**	**Yes**	**24**	**16.67**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Tests - All Results

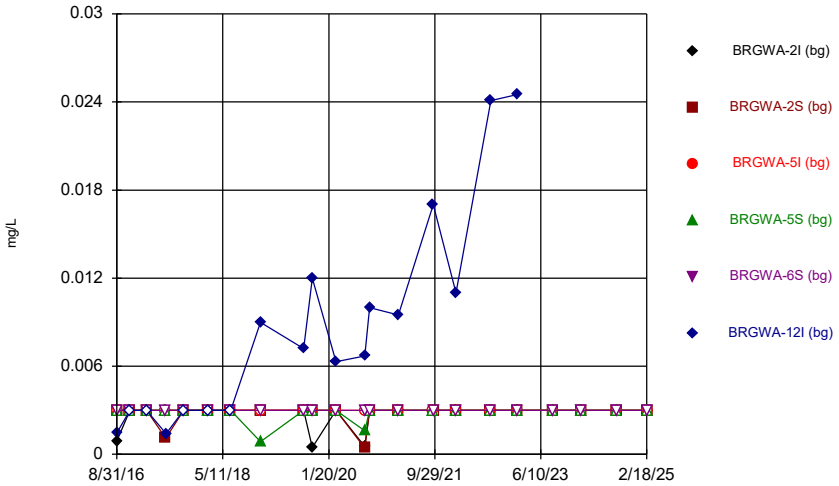
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:55 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**BRGWA-2I (bg)**	**-0.00005343**	**-81**	**-71**	**Yes**	**22**	**54.55**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002537**	**-153**	**-71**	**Yes**	**22**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00008865**	**-116**	**-66**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	31	71	No	22	72.73	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	24	71	No	22	77.27	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0004365**	**-120**	**-71**	**Yes**	**22**	**31.82**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-63I**	**0.006217**	**19**	**15**	**Yes**	**7**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	BRGWA-2I (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	0	-15	-71	No	22	40.91	n/a	n/a	0.05	NP
Selenium (mg/L)	**BRGWC-32S**	**0.02816**	**153**	**81**	**Yes**	**24**	**16.67**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	PZ-75I	0.03168	8	10	No	5	0	n/a	n/a	0.05	NP

FIGURE A.

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Hollow symbols indicate censored values.

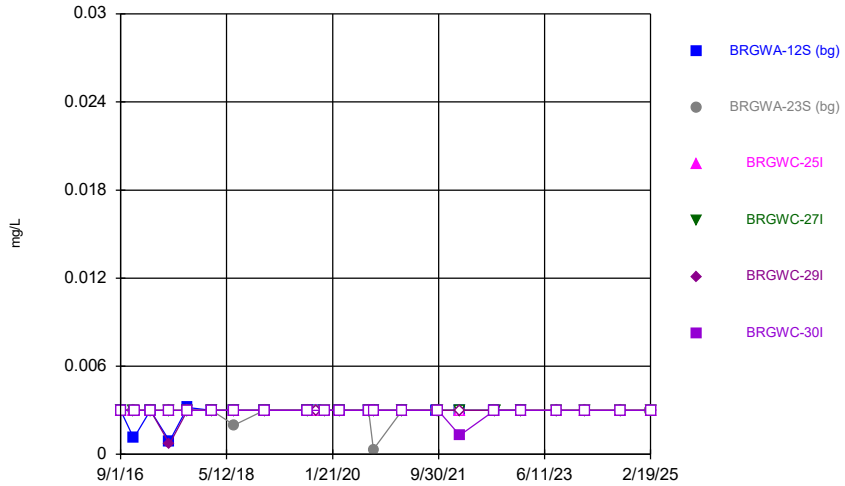
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Constituent: Antimony Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

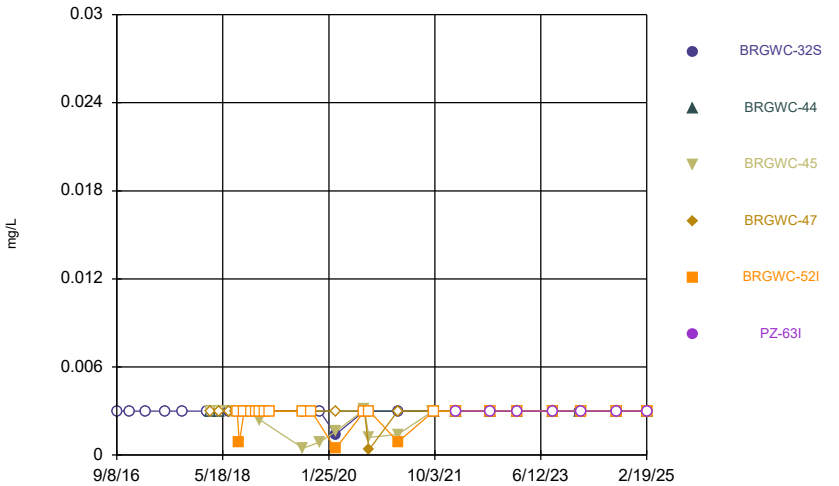
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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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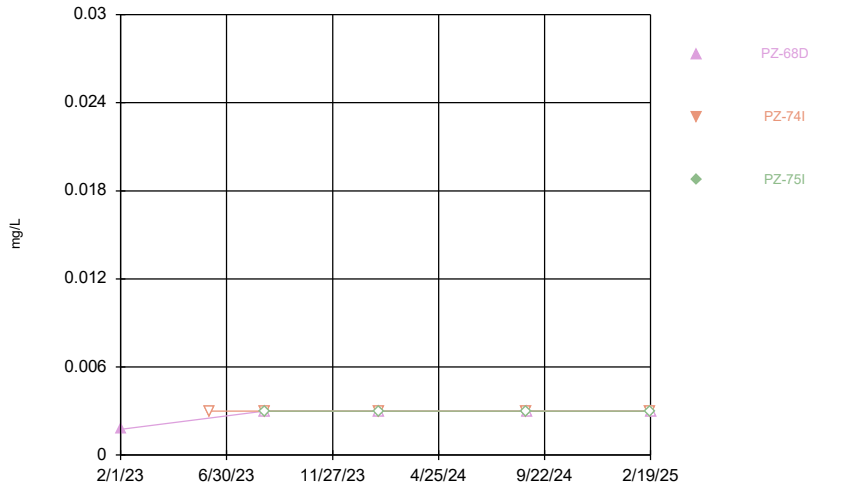
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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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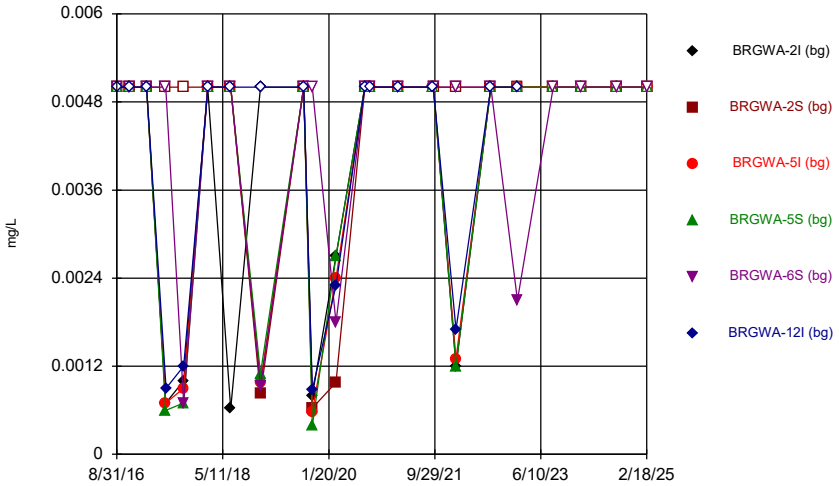
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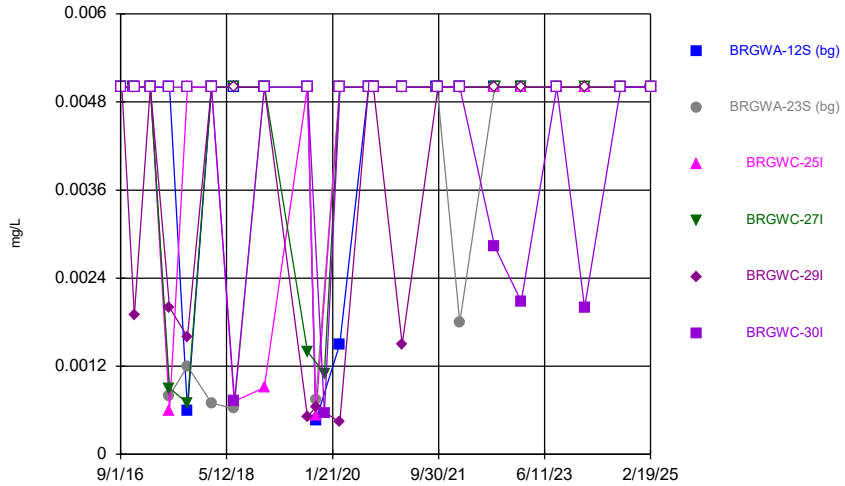
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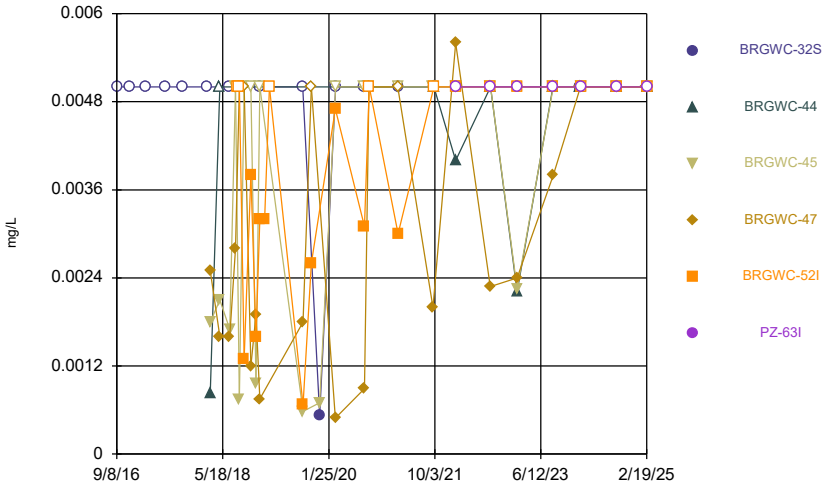
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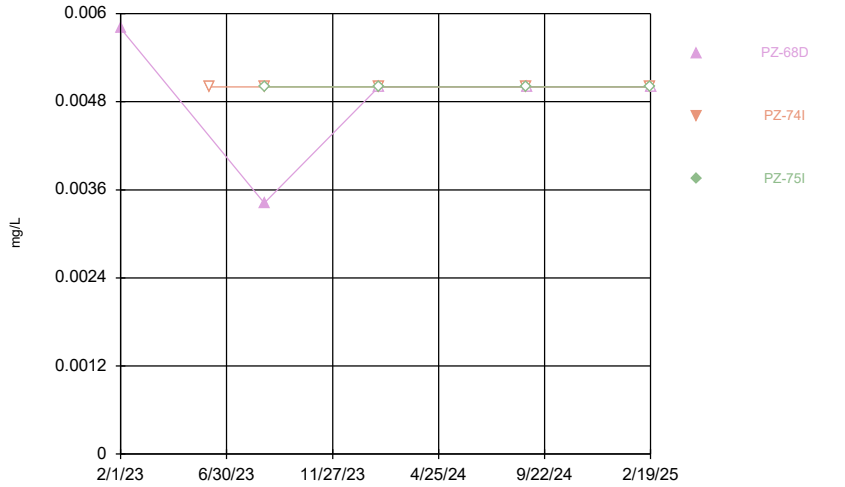
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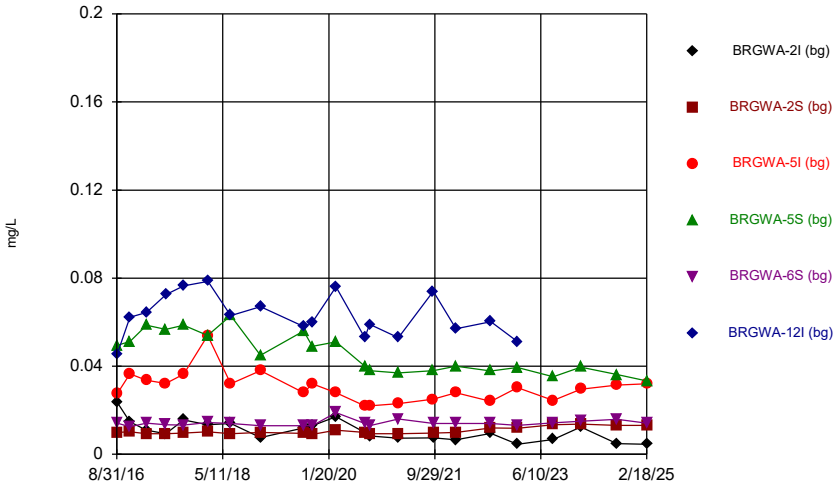
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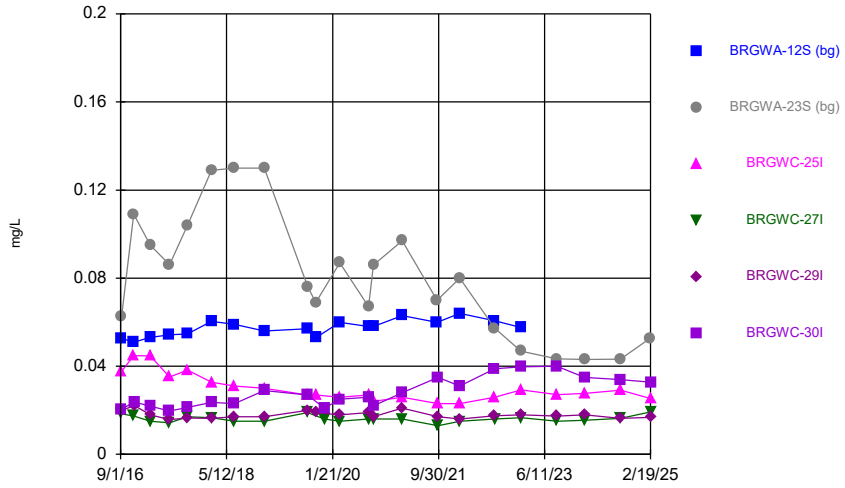
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Constituent: Barium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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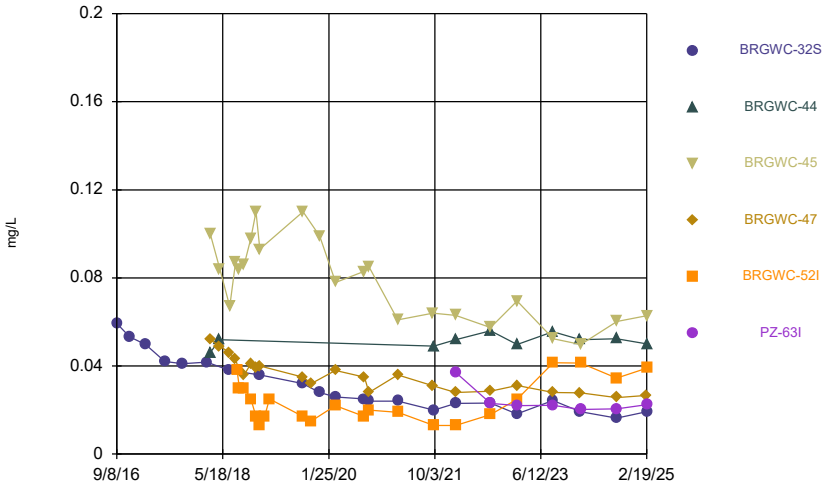
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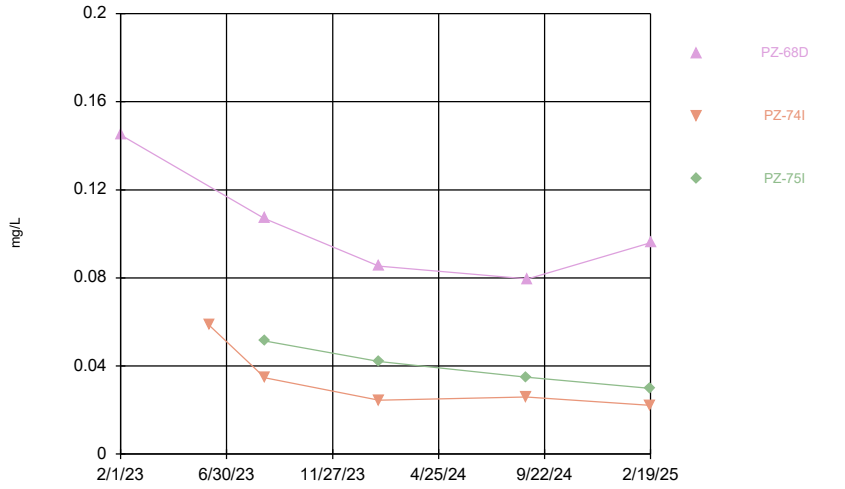
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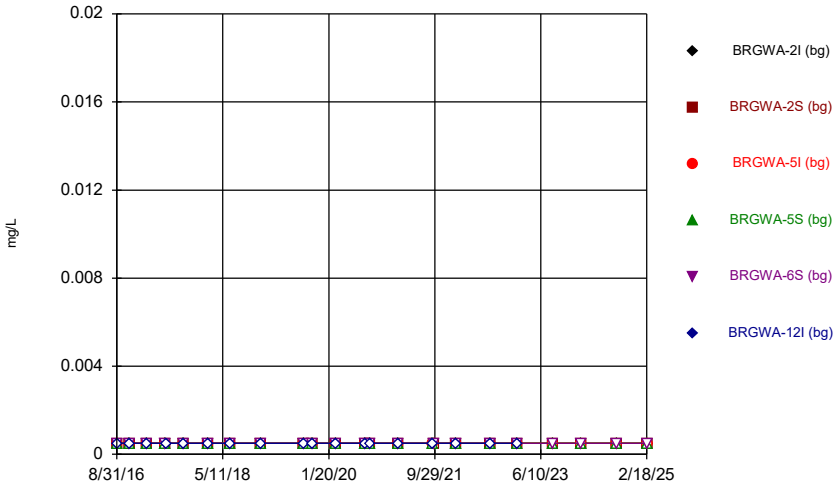
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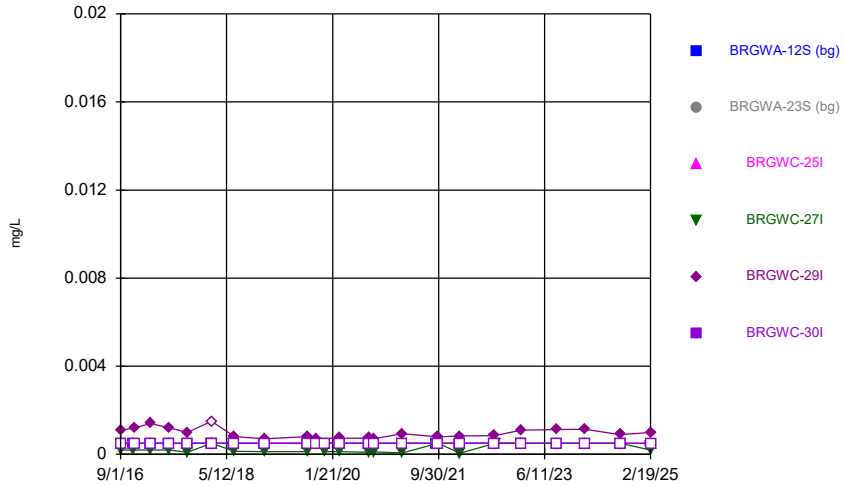
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

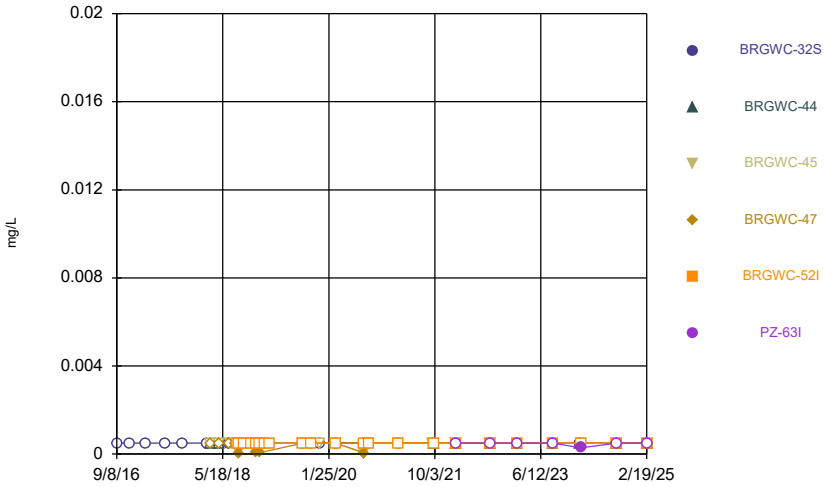
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

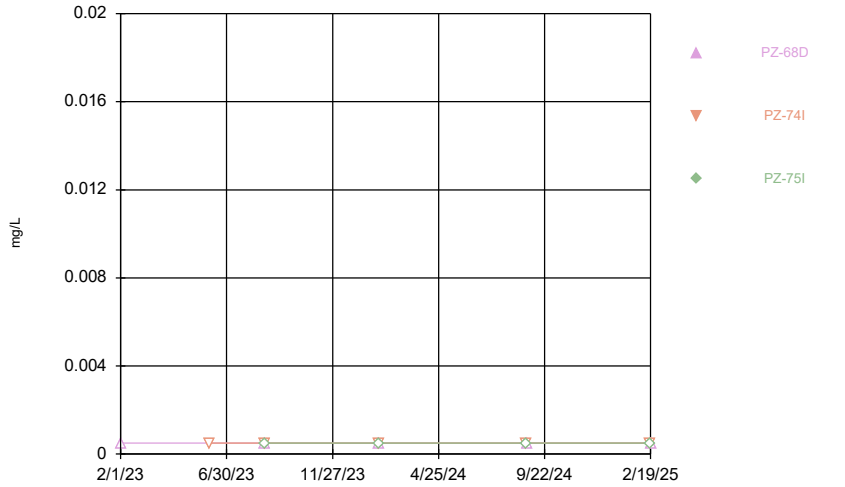
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

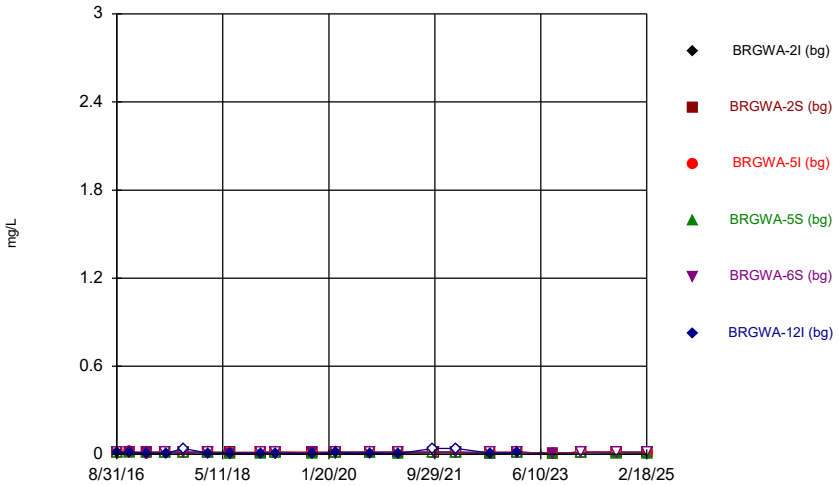
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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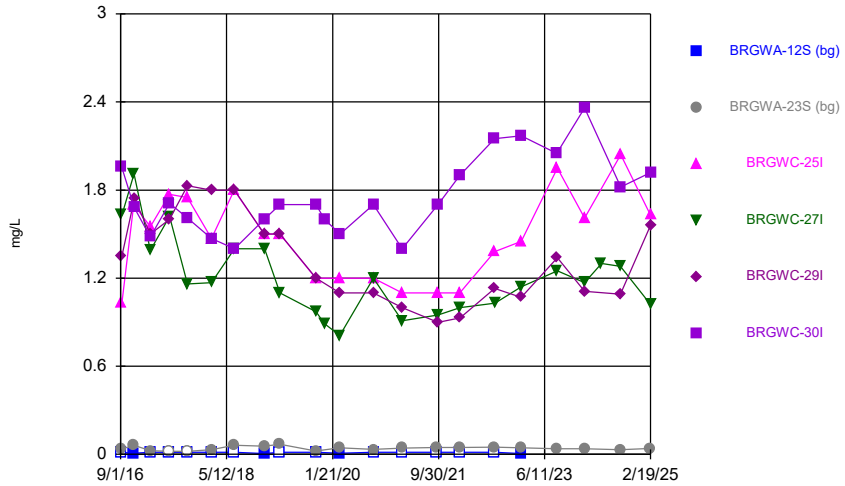
Time Series



Constituent: Boron Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

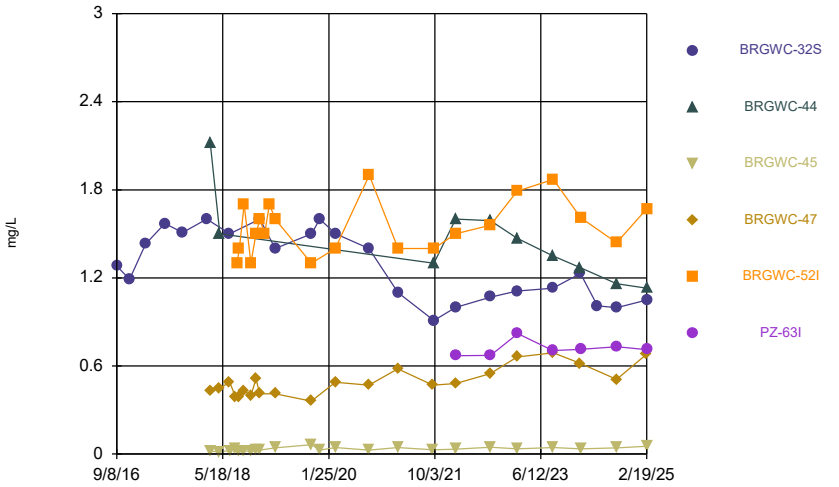
Time Series



Constituent: Boron Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

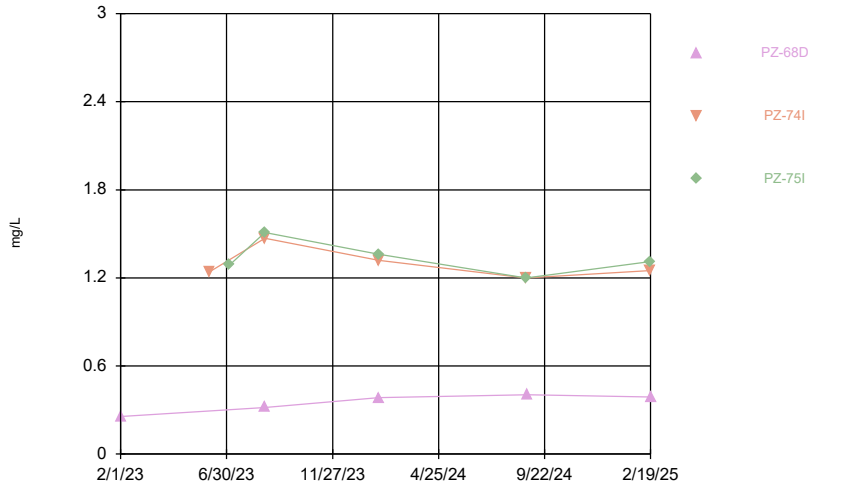
Time Series



Constituent: Boron Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

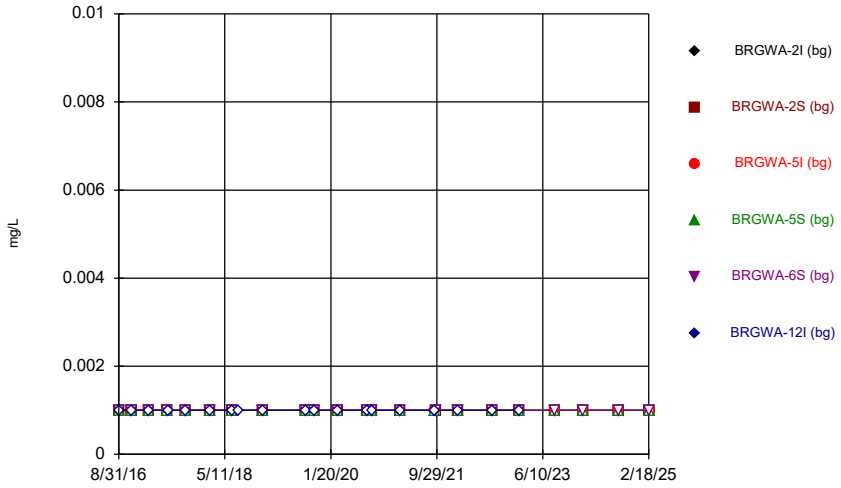
Time Series



Constituent: Boron Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

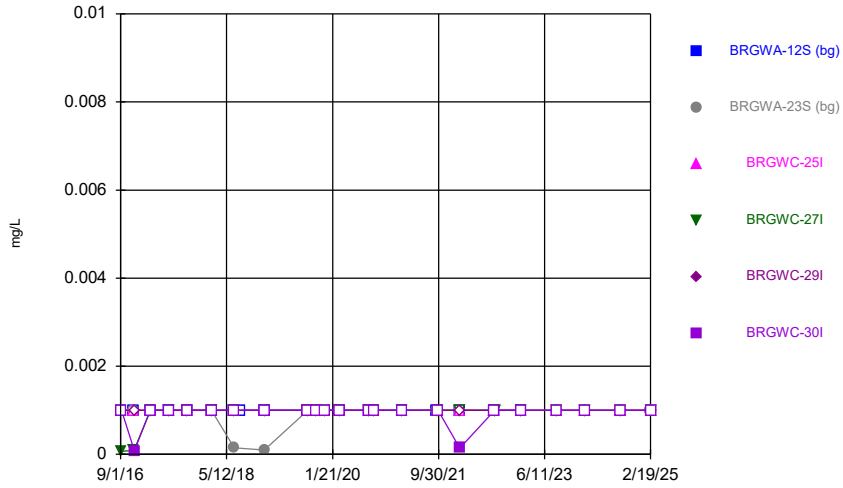
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

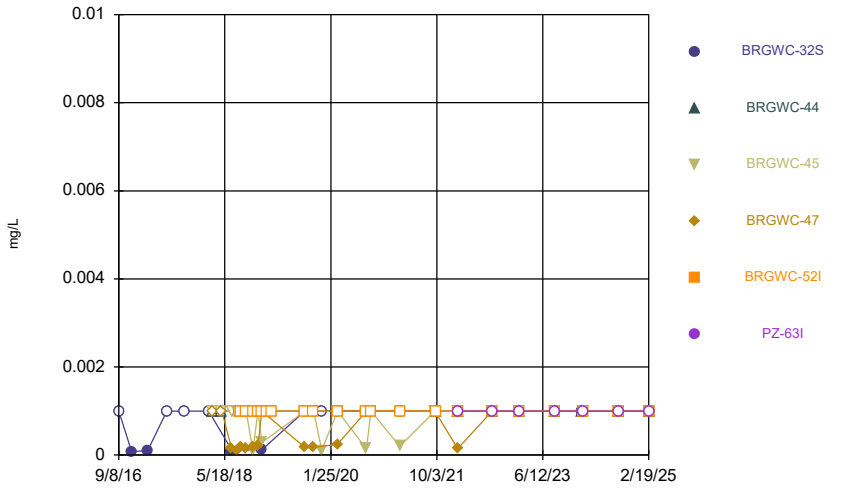
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

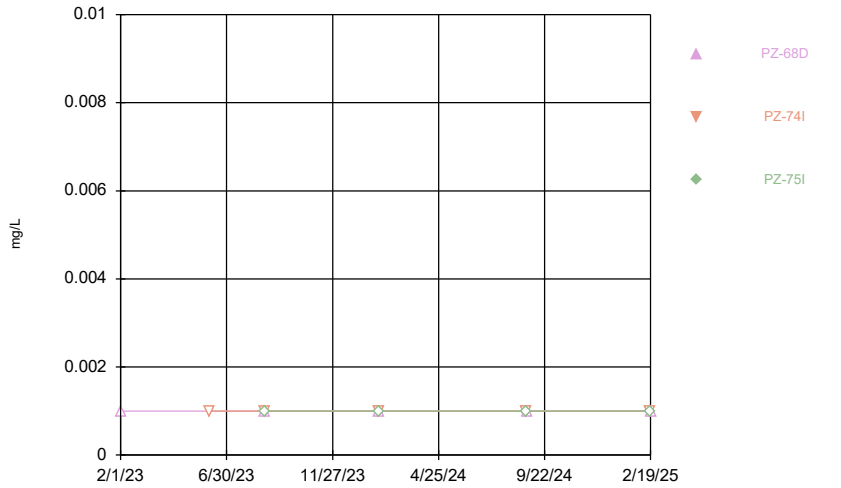
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

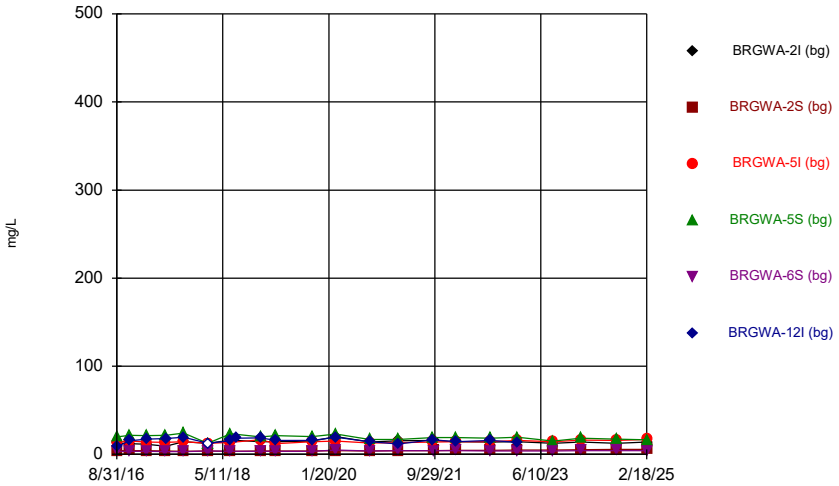
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

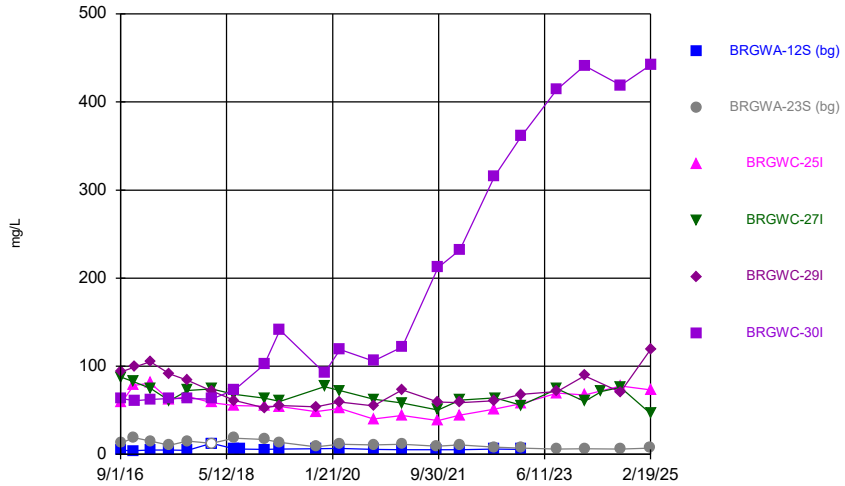
Time Series



Constituent: Calcium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

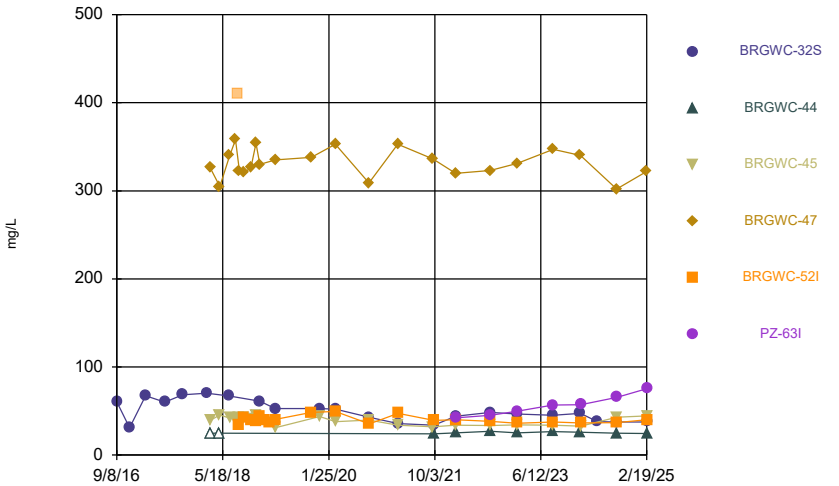
Time Series



Constituent: Calcium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

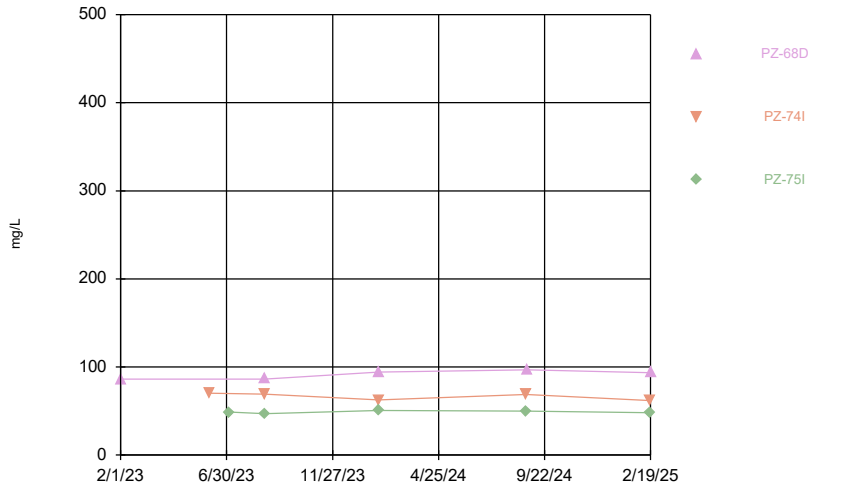
Time Series



Constituent: Calcium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

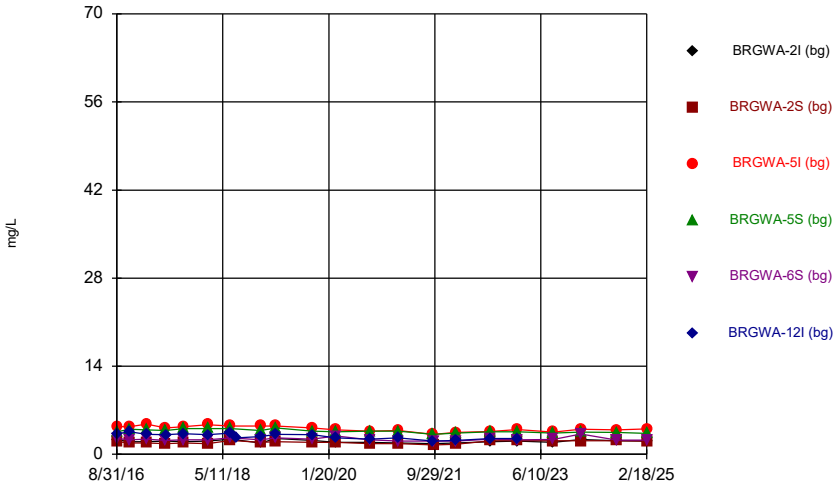
Time Series



Constituent: Calcium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

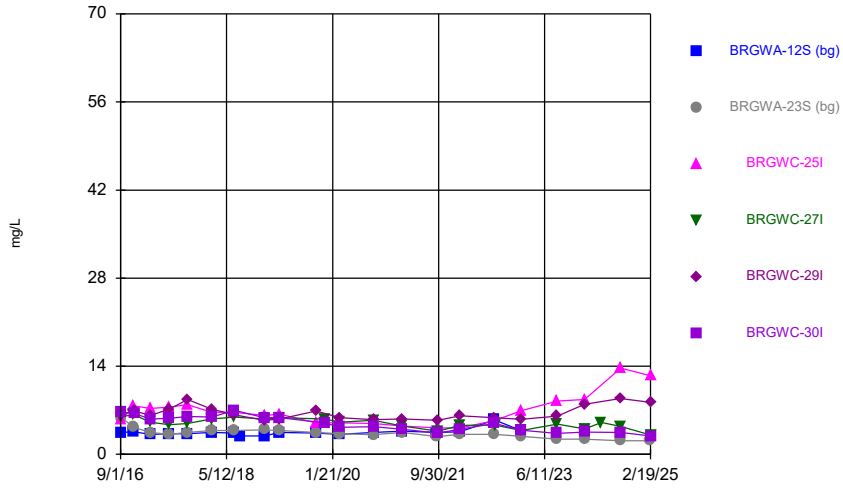


Constituent: Chloride Analysis Run 5/20/2025 3:05 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

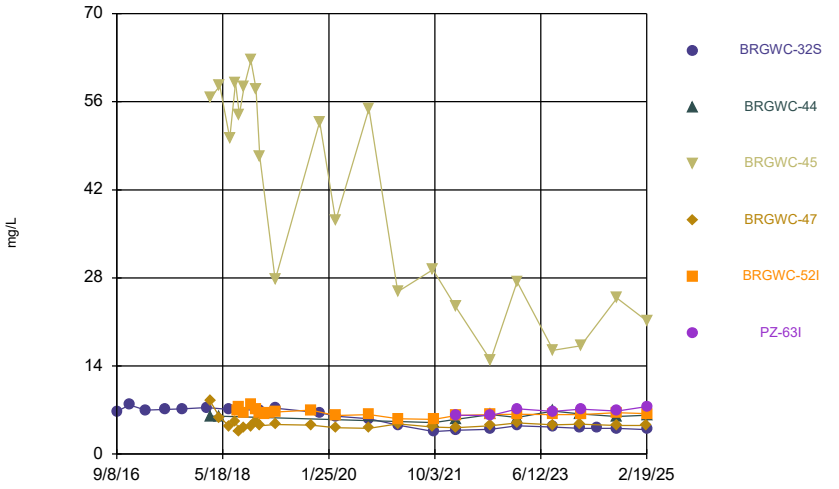


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

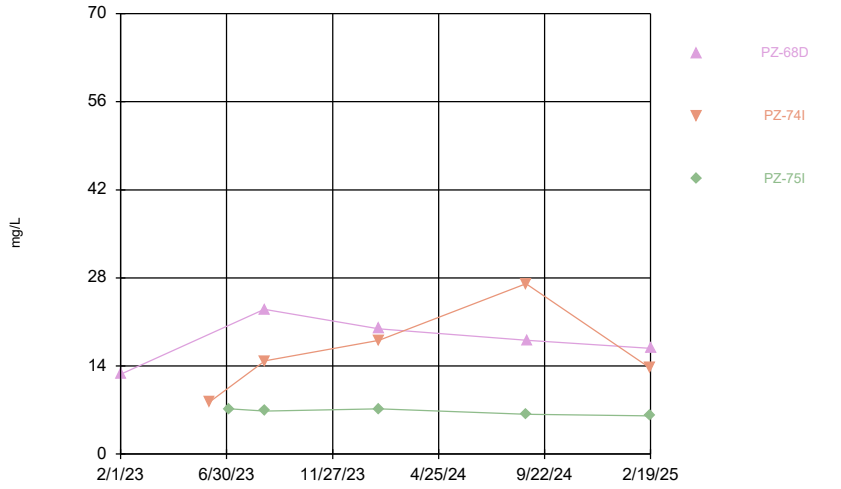


Constituent: Chloride Analysis Run 5/20/2025 3:05 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

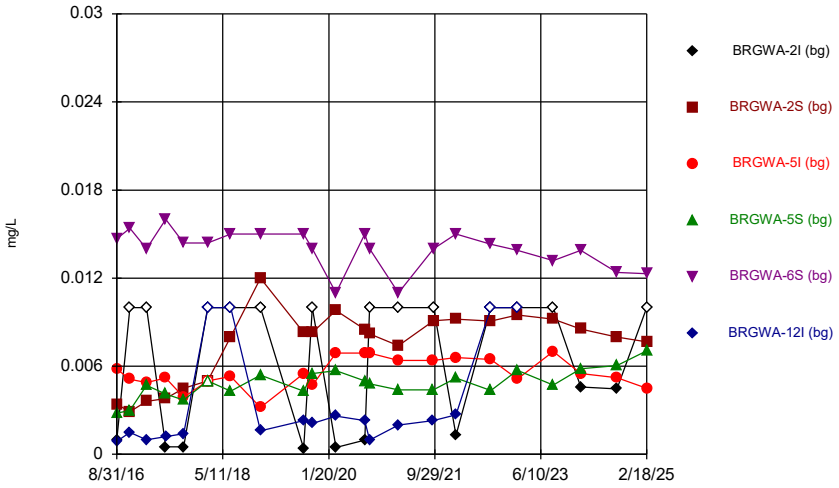


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

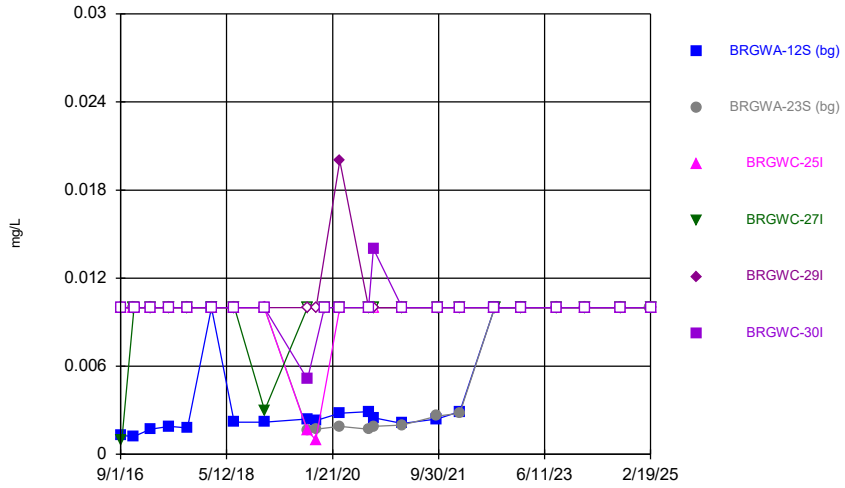
Time Series



Constituent: Chromium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

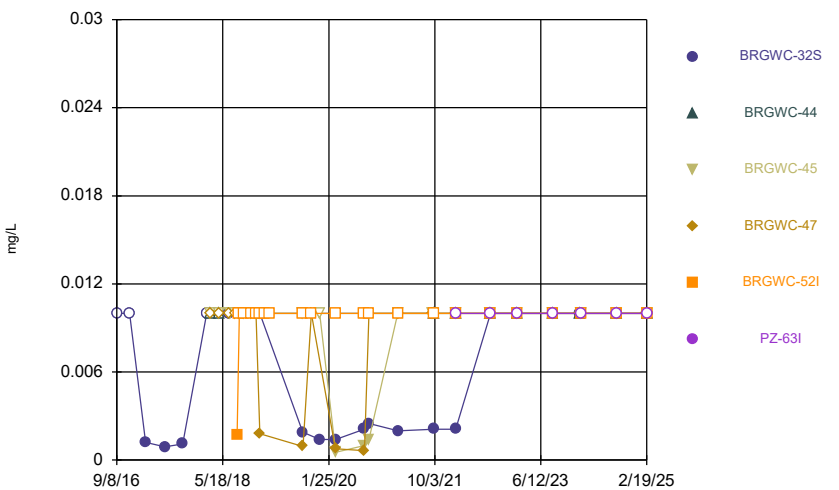
Time Series



Constituent: Chromium Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

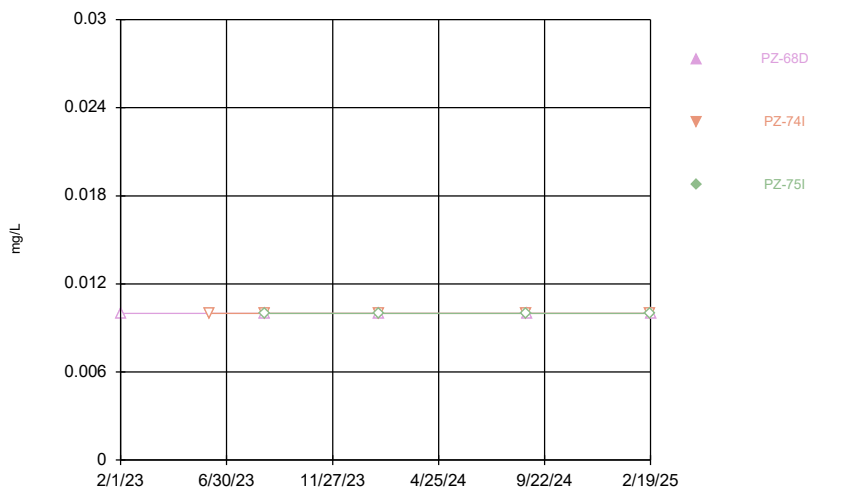
Time Series



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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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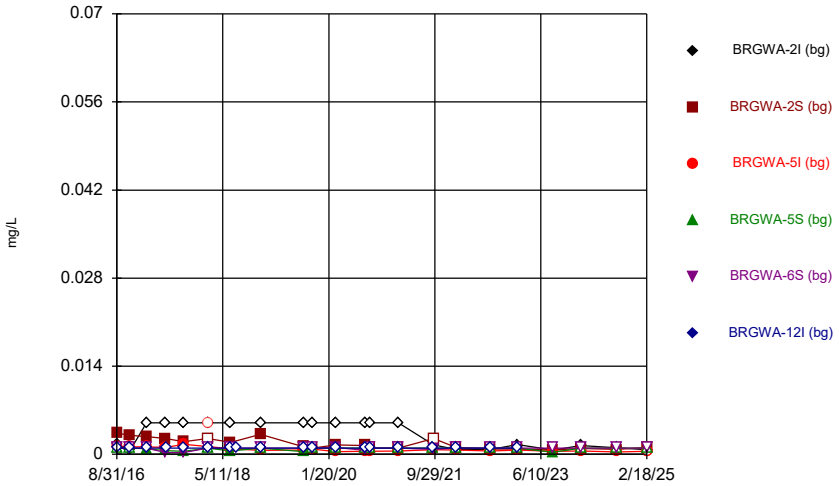
Time Series



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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

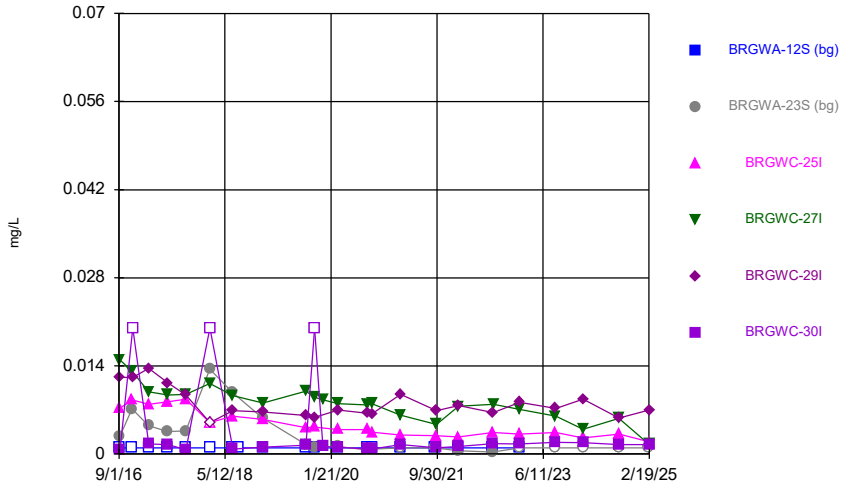
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

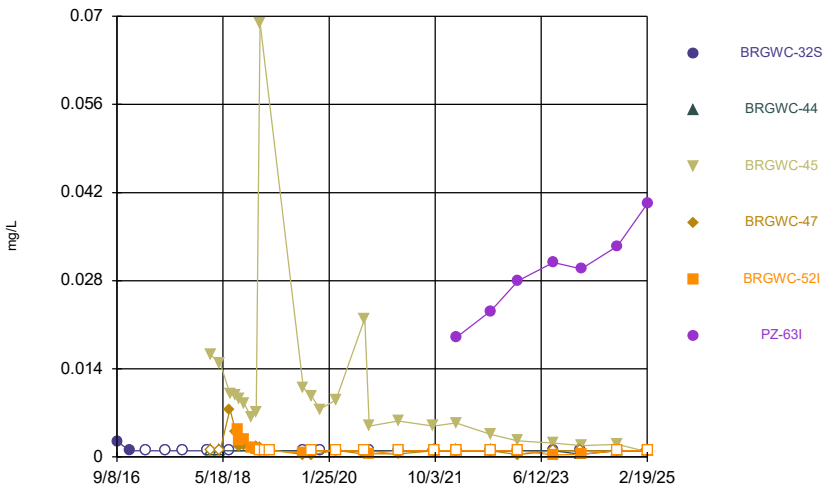
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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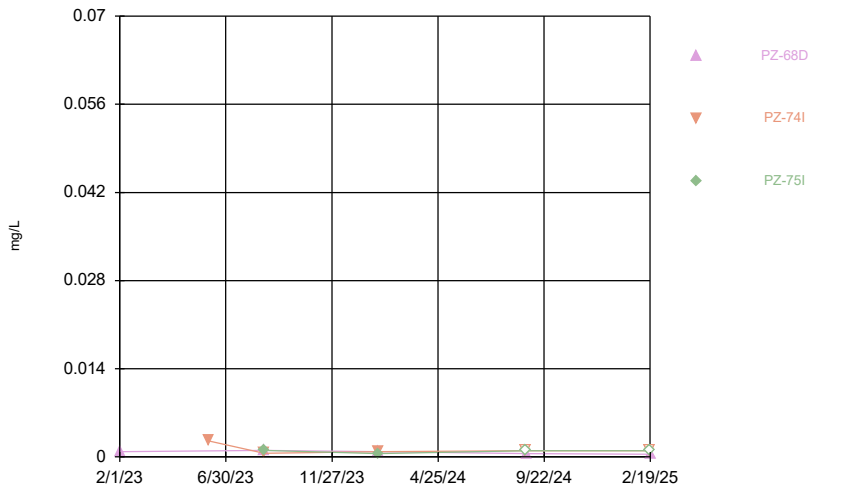
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

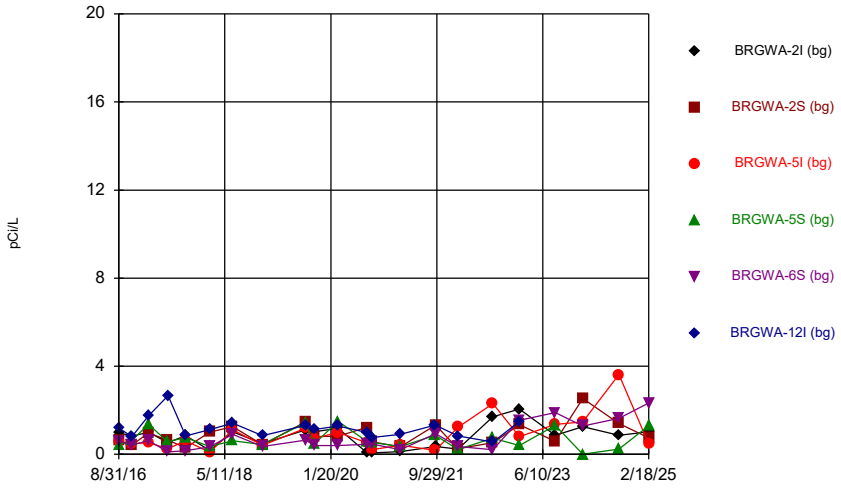
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

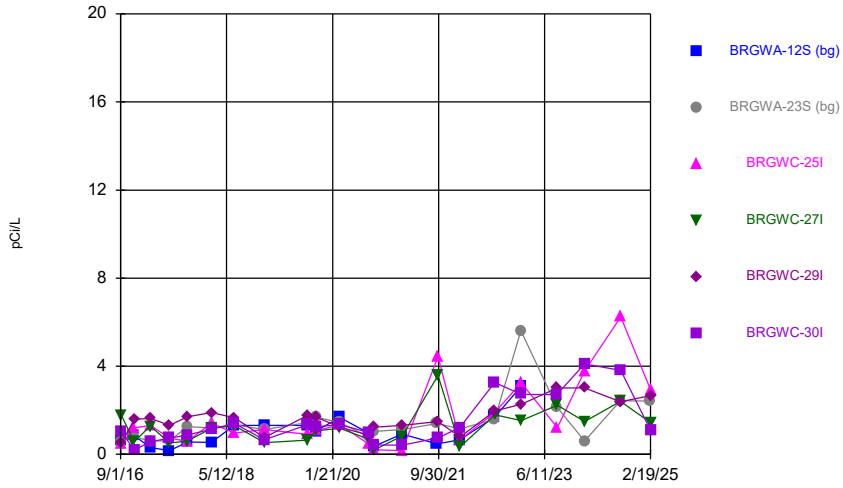
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

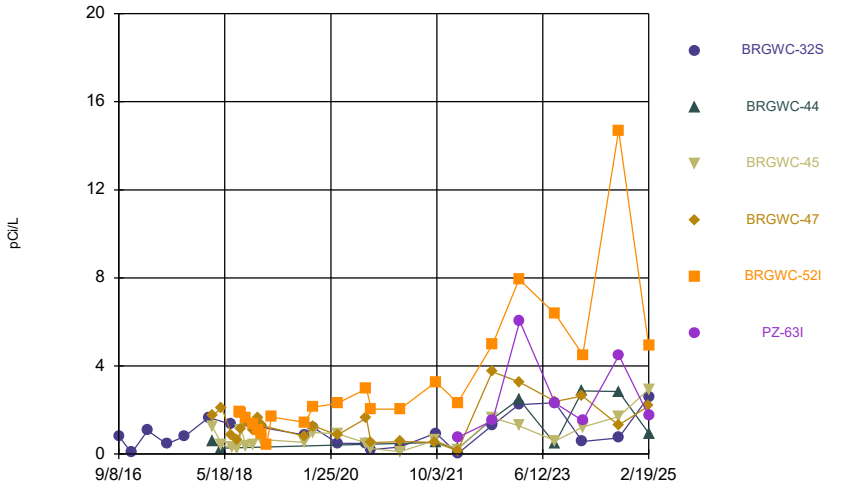
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

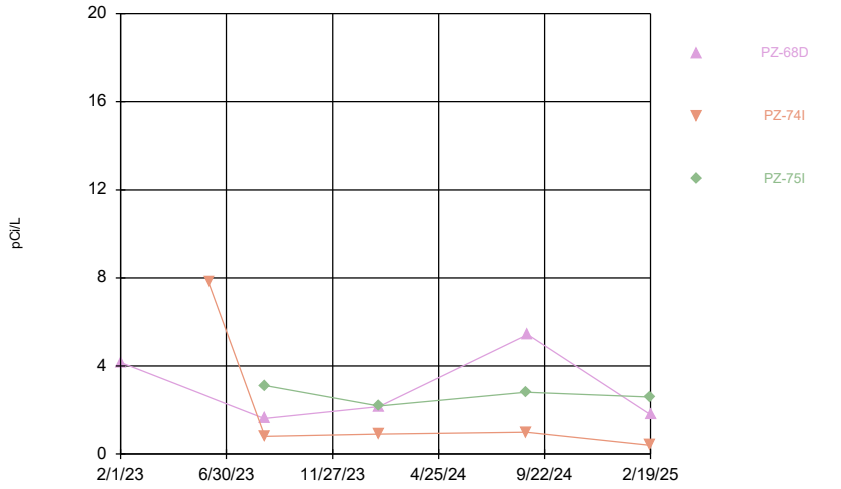
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

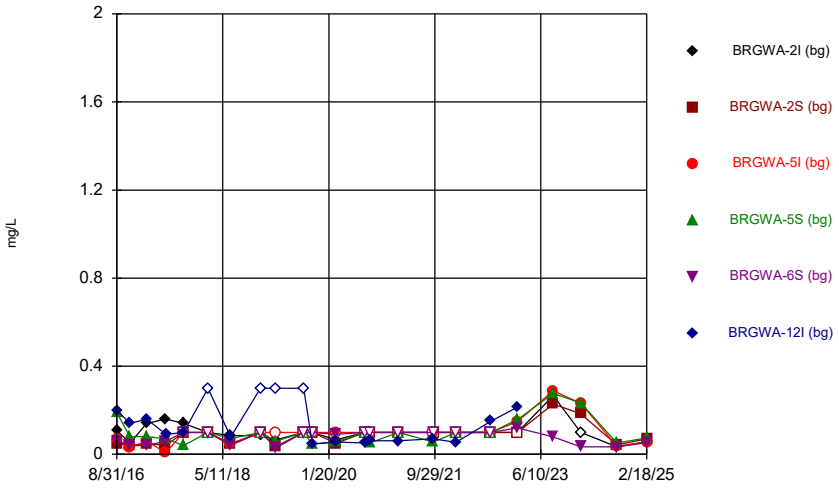
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:05 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

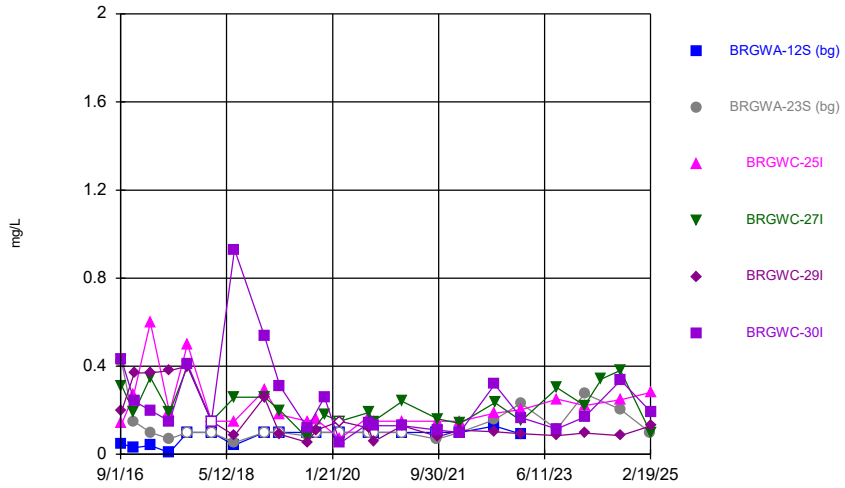
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

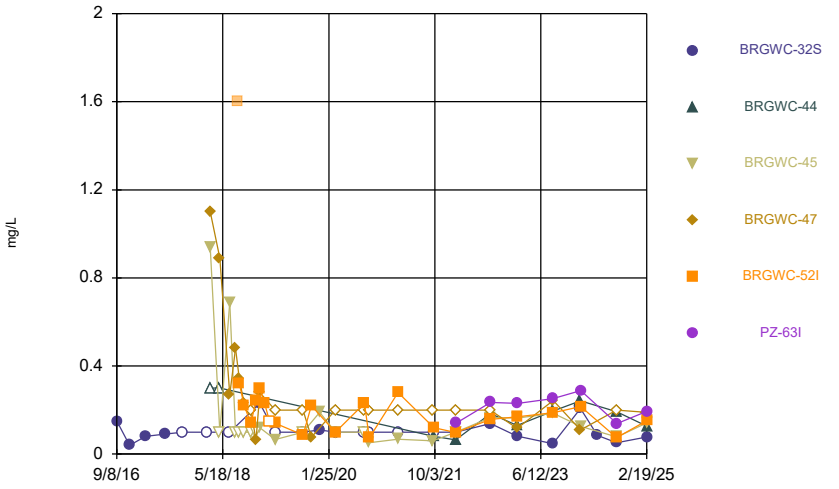
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

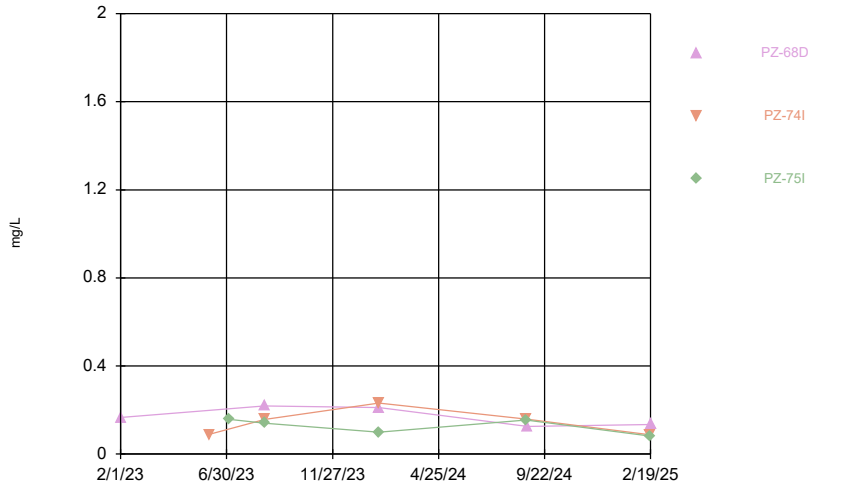
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

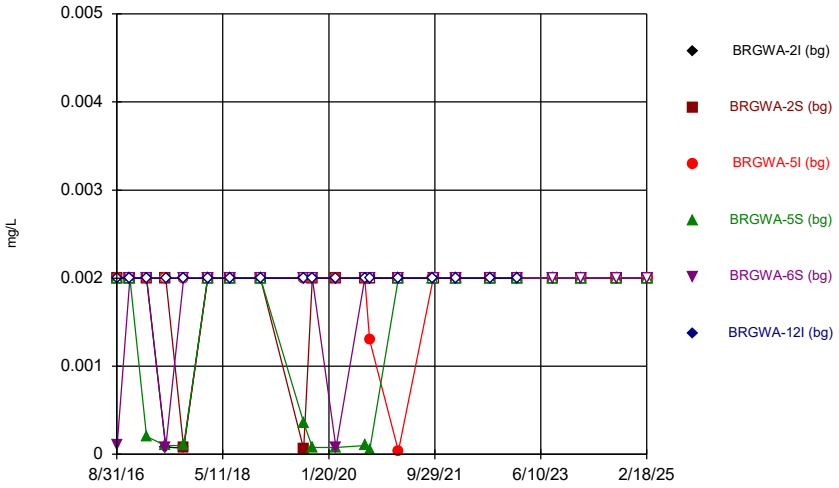
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

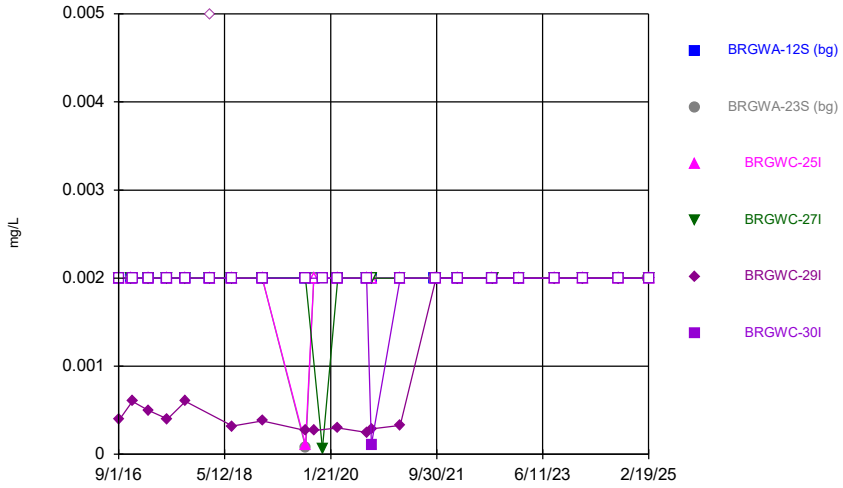
Time Series



Constituent: Lead Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

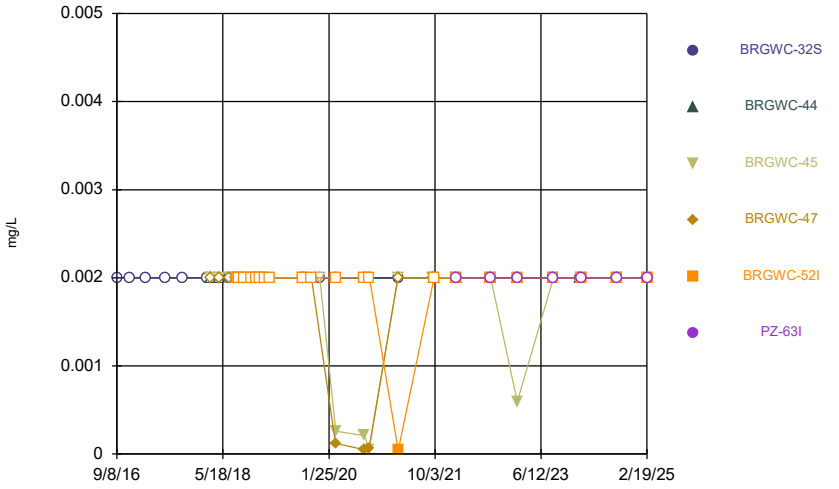
Time Series



Constituent: Lead Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

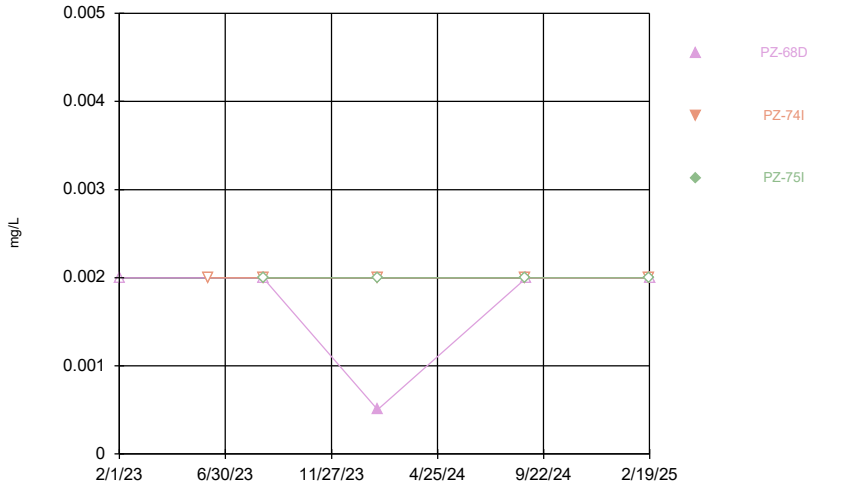
Time Series



Constituent: Lead Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

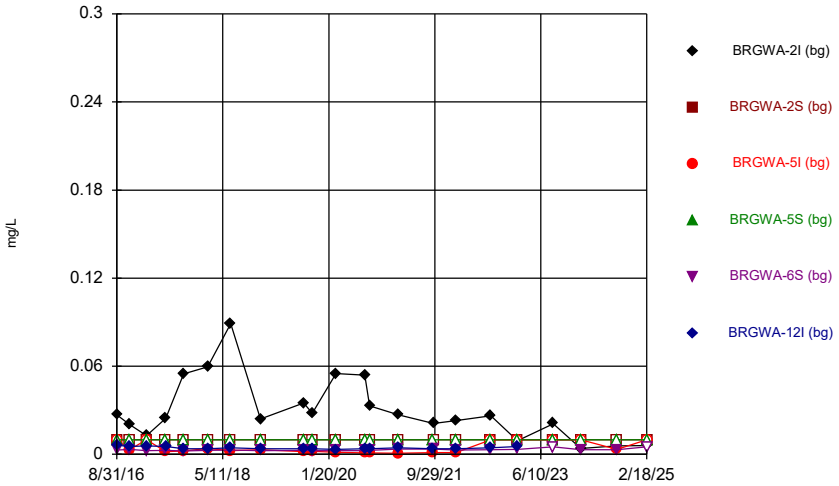
Time Series



Constituent: Lead Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

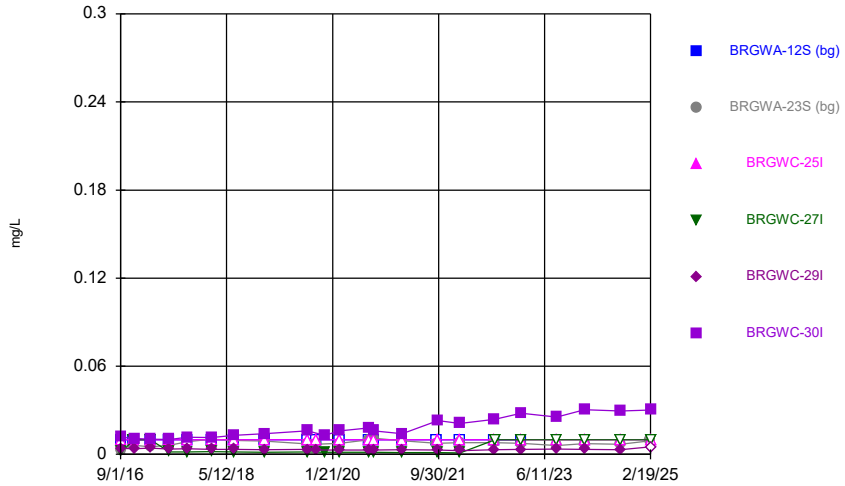
Time Series



Constituent: Lithium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

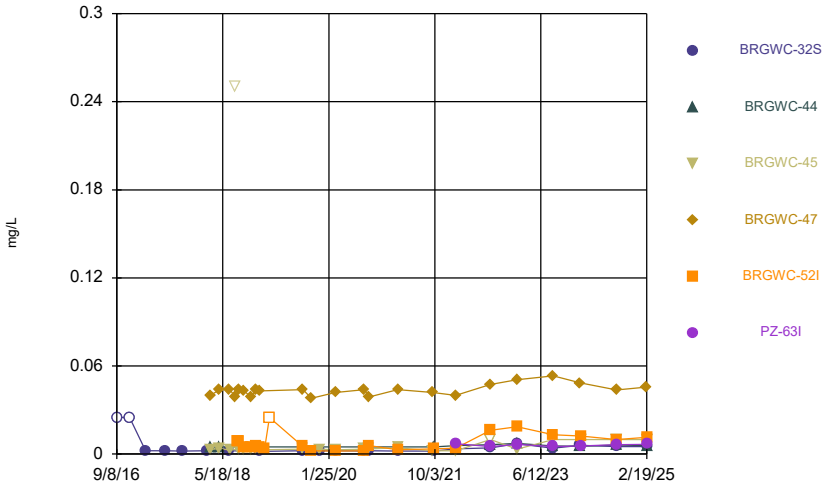
Time Series



Constituent: Lithium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

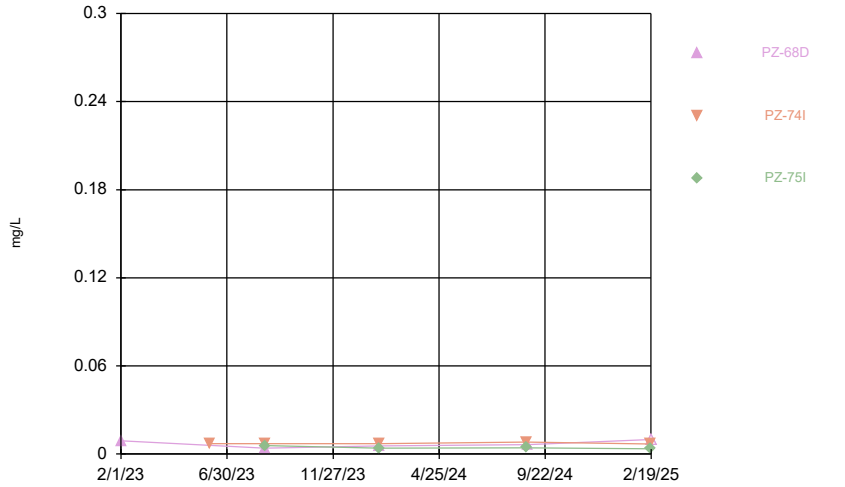
Time Series



Constituent: Lithium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

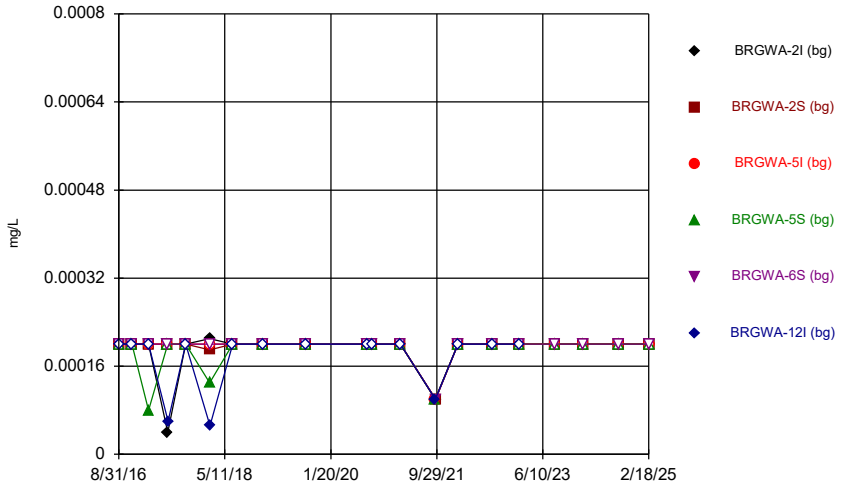
Time Series



Constituent: Lithium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

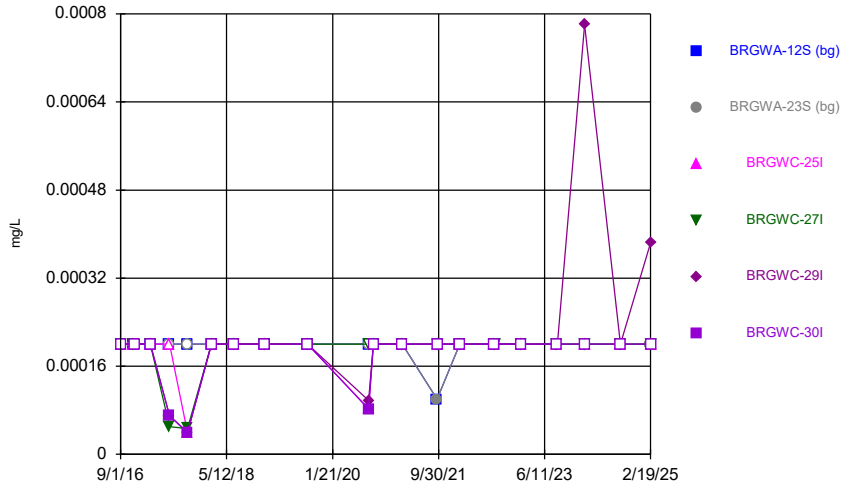
Time Series



Constituent: Mercury Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

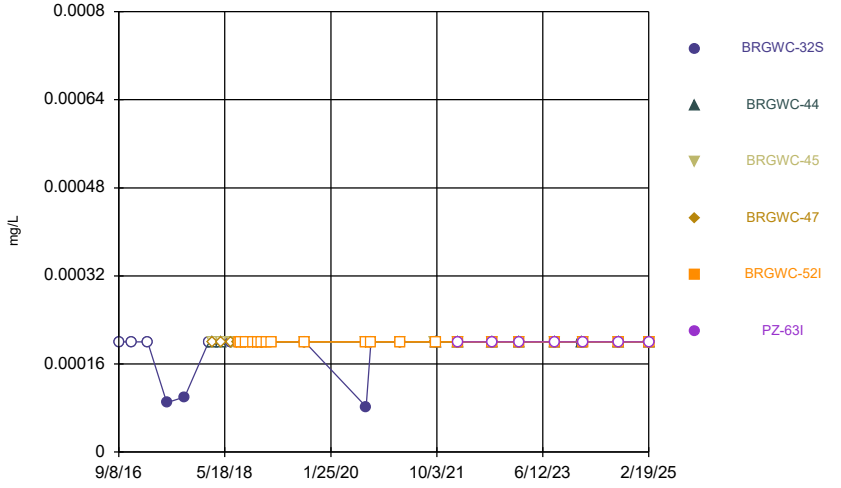
Time Series



Constituent: Mercury Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

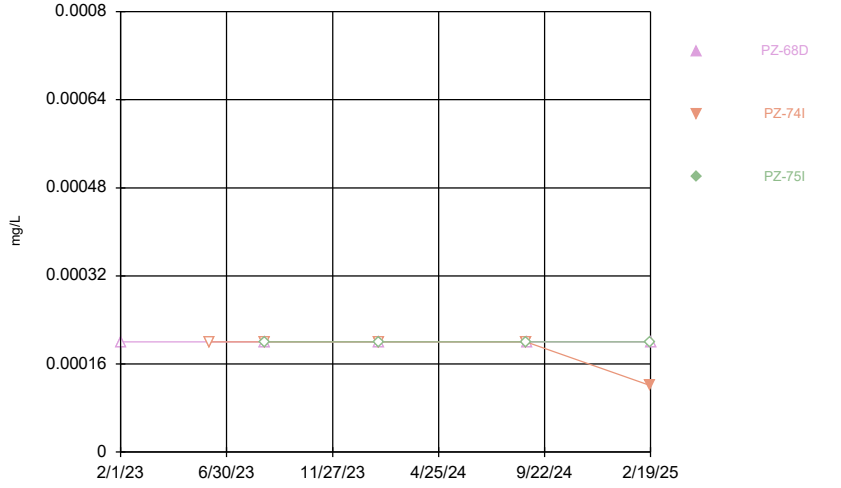
Time Series



Constituent: Mercury Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

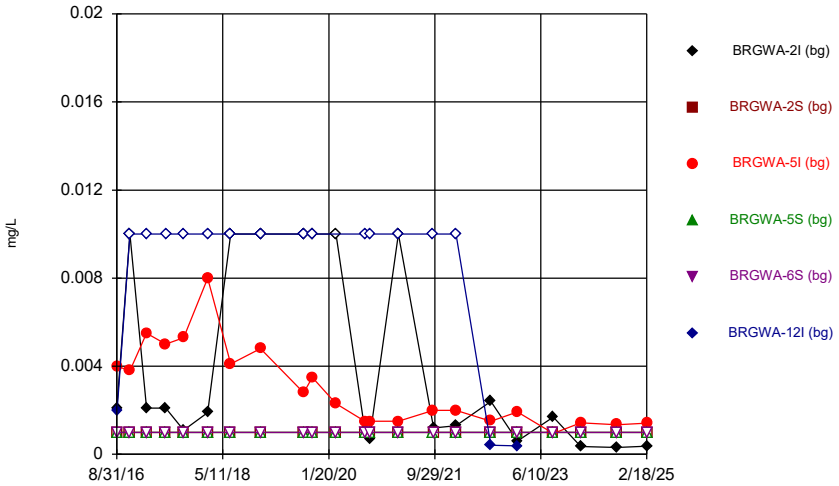
Time Series



Constituent: Mercury Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

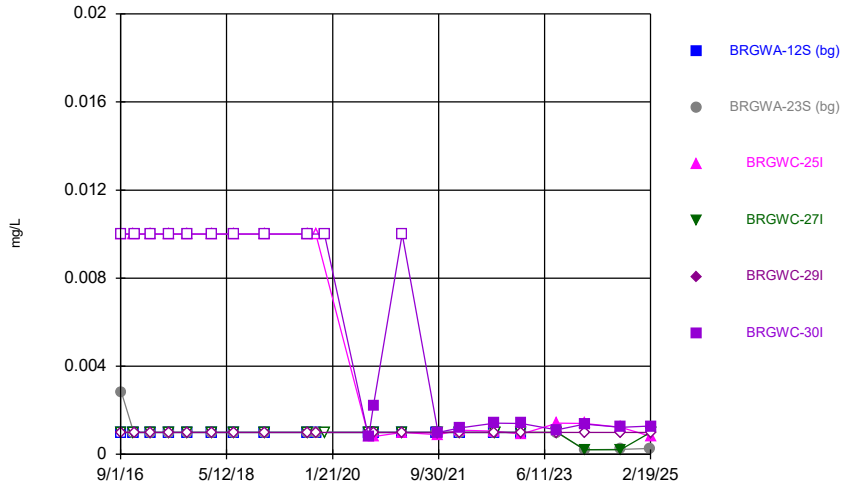
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

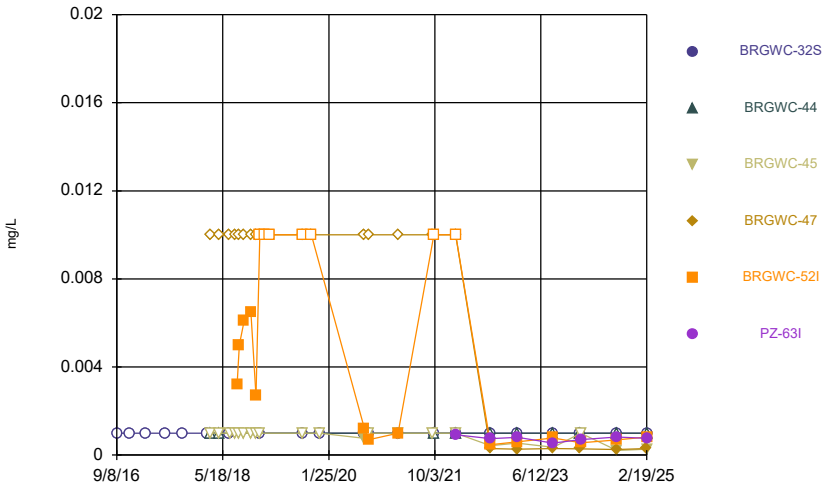
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

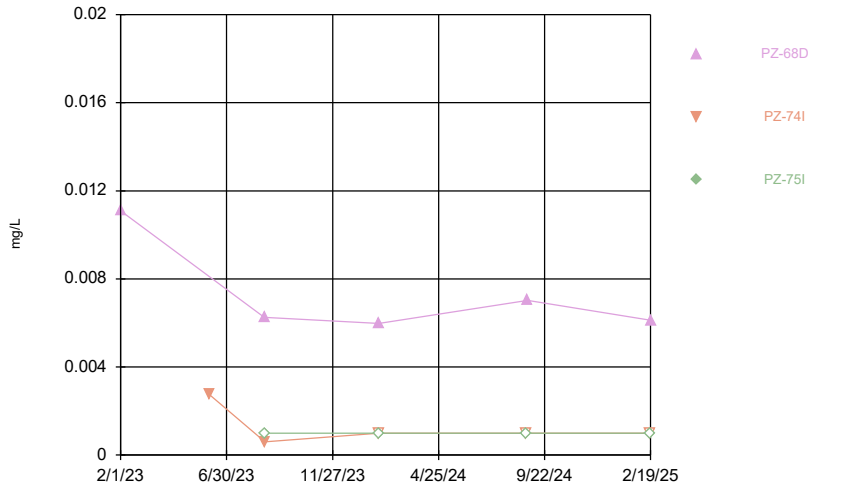
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

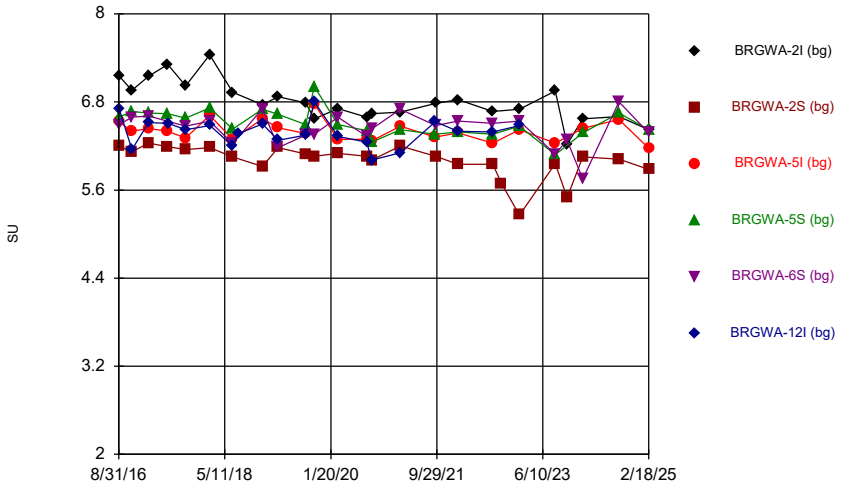
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

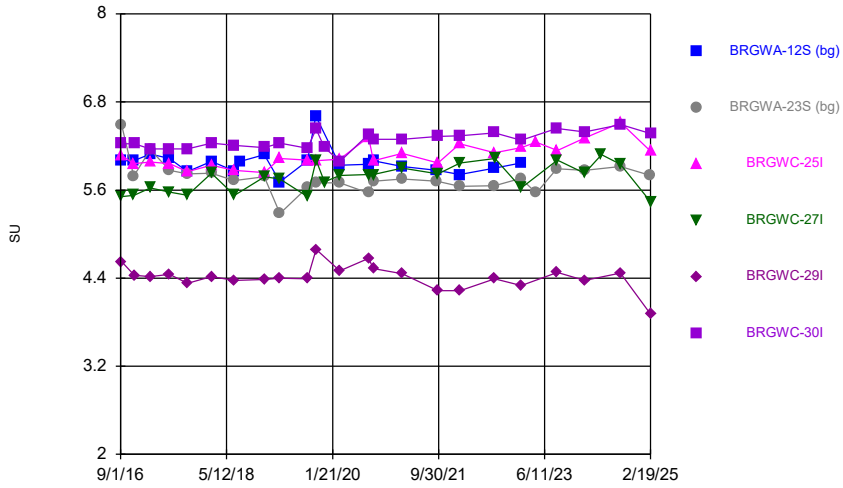


Constituent: pH, Field Analysis Run 5/20/2025 3:06 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

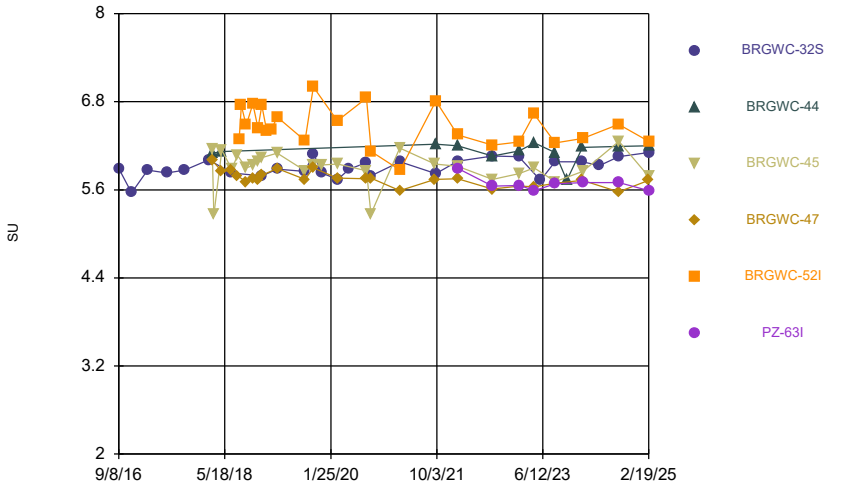


Constituent: pH, Field Analysis Run 5/20/2025 3:06 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

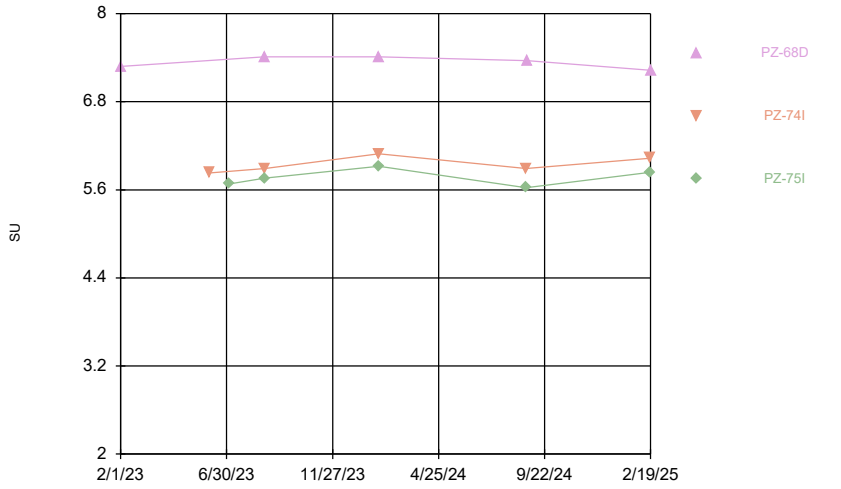


Constituent: pH, Field Analysis Run 5/20/2025 3:06 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

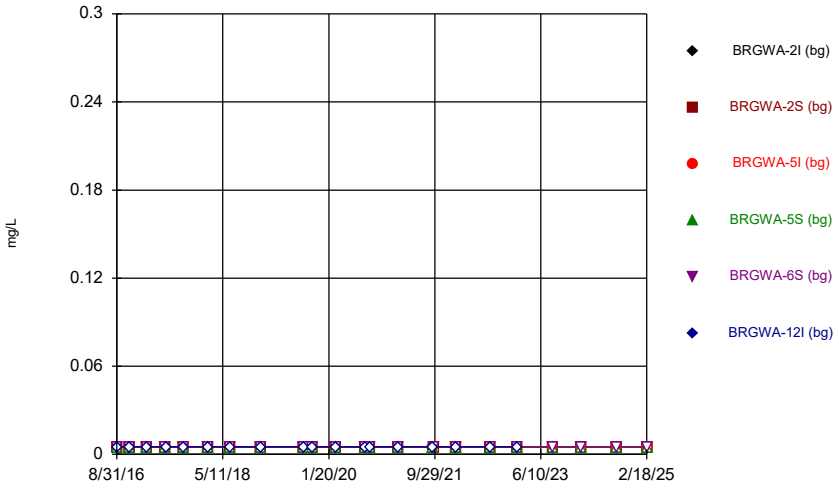


Constituent: pH, Field Analysis Run 5/20/2025 3:06 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

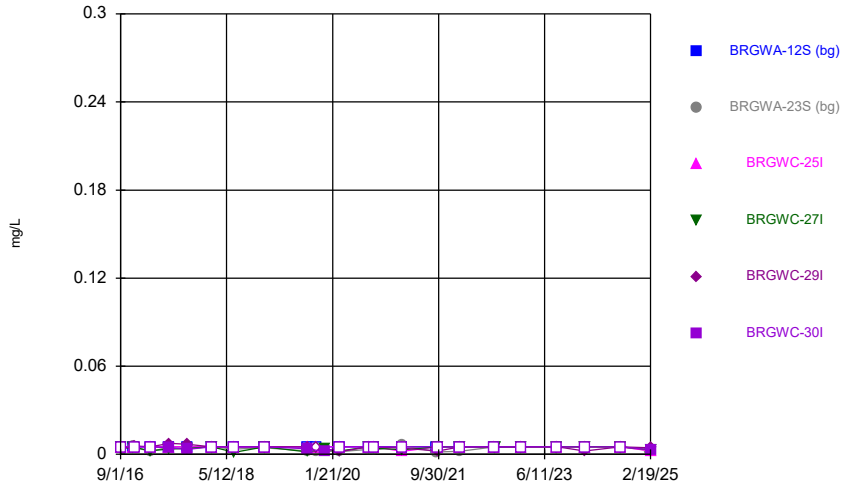
Time Series



Constituent: Selenium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

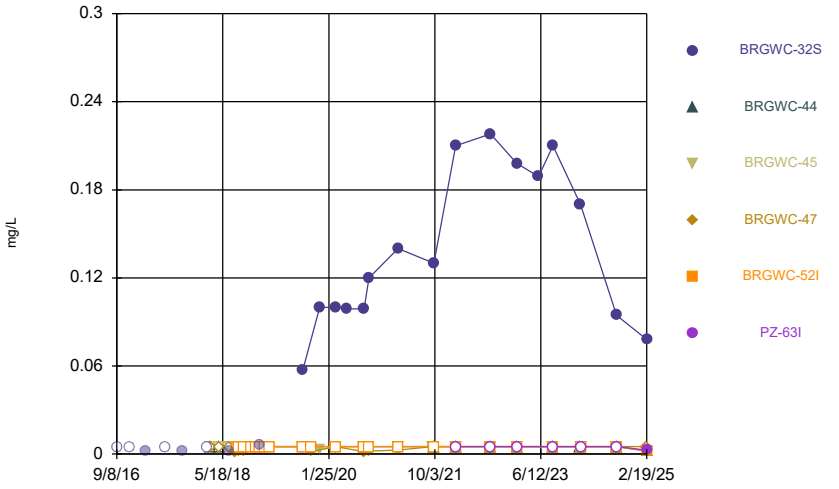
Time Series



Constituent: Selenium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

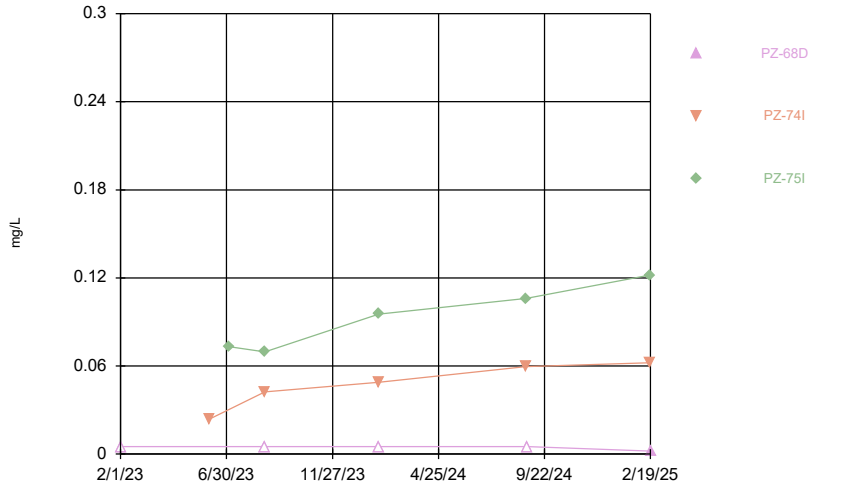
Time Series



Constituent: Selenium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

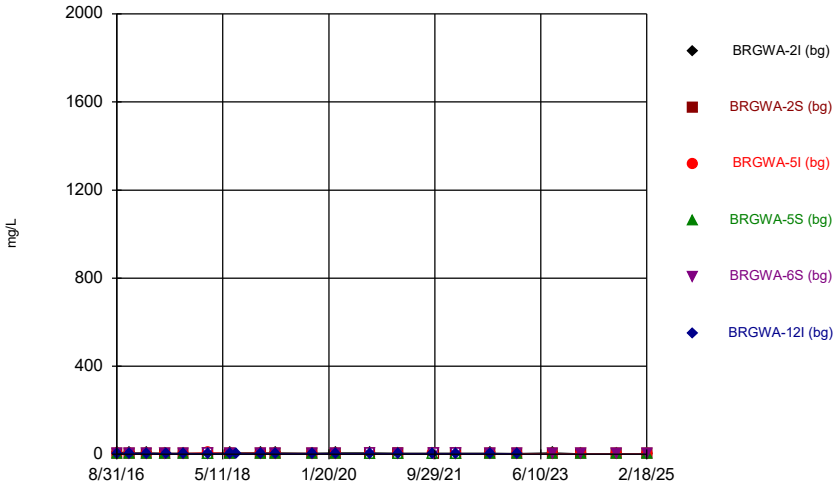
Time Series



Constituent: Selenium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

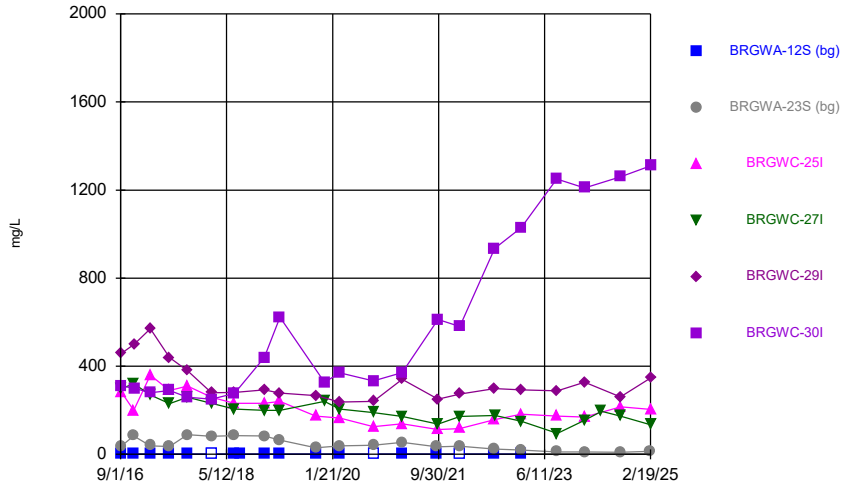
Time Series



Constituent: Sulfate Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

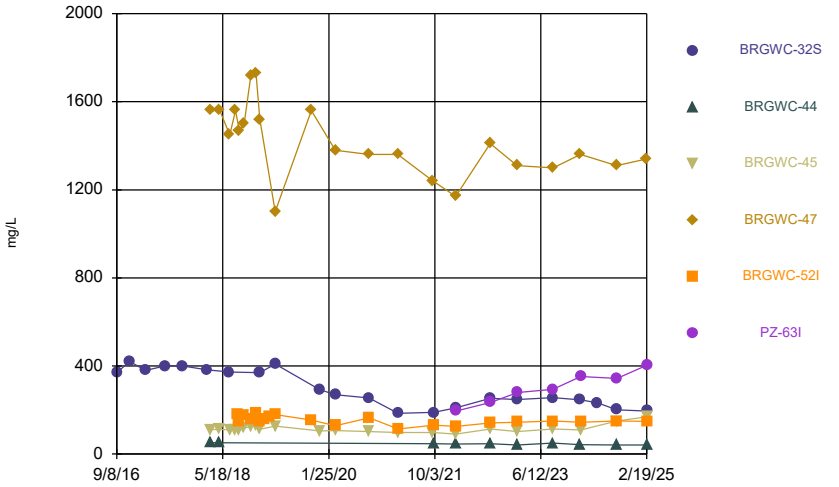
Time Series



Constituent: Sulfate Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

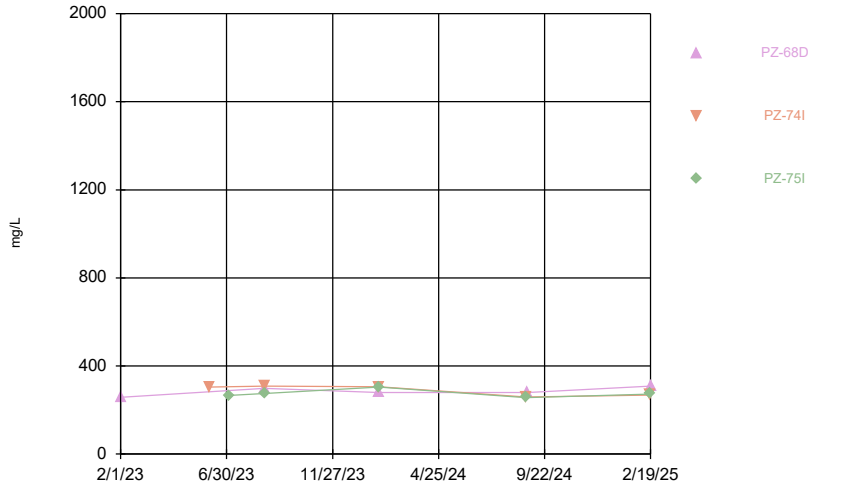
Time Series



Constituent: Sulfate Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

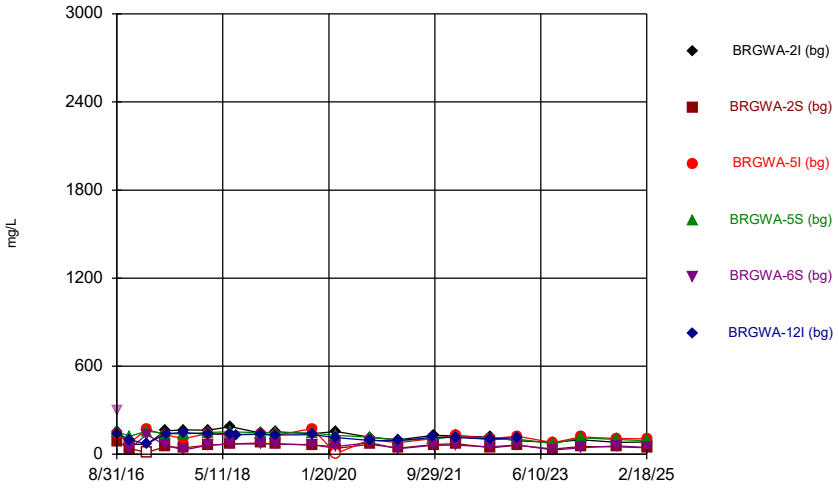
Time Series



Constituent: Sulfate Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

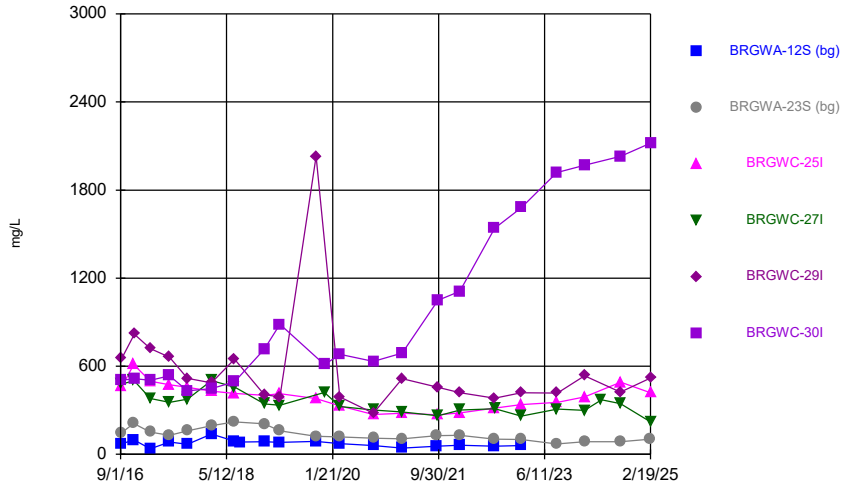
Time Series



Constituent: TDS Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

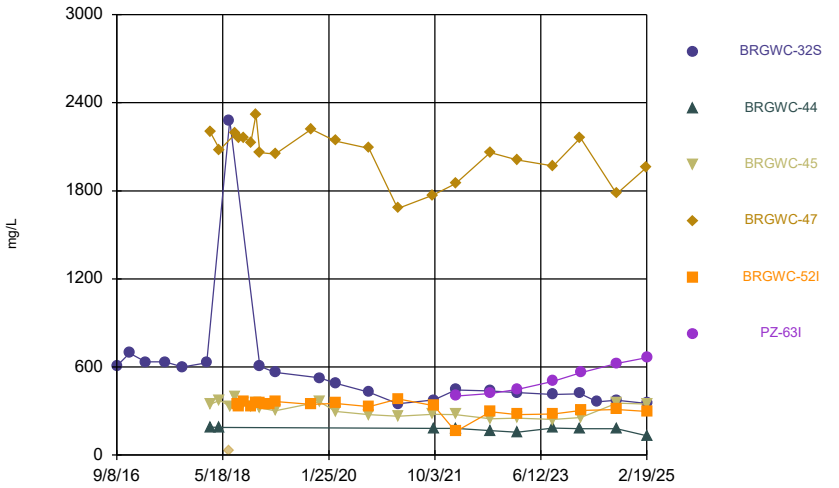
Time Series



Constituent: TDS Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

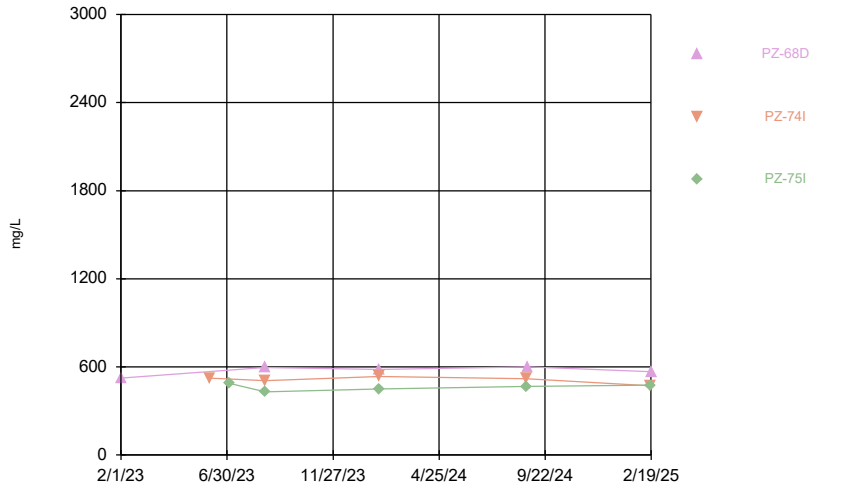
Time Series



Constituent: TDS Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

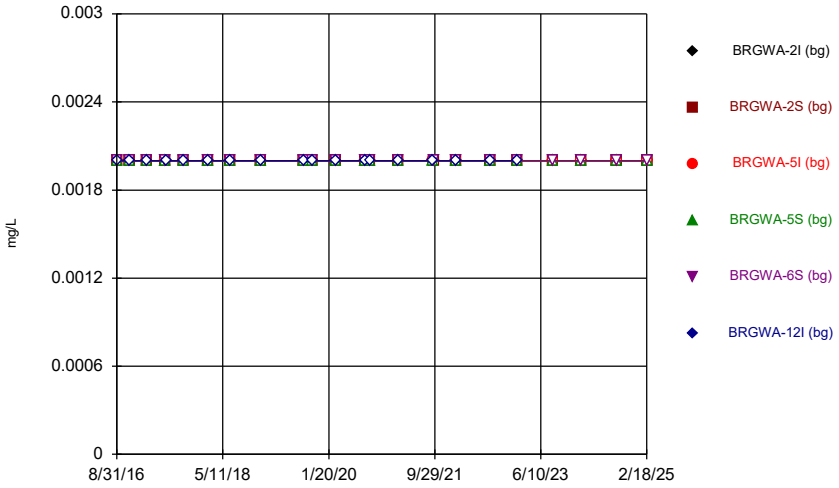
Time Series



Constituent: TDS Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

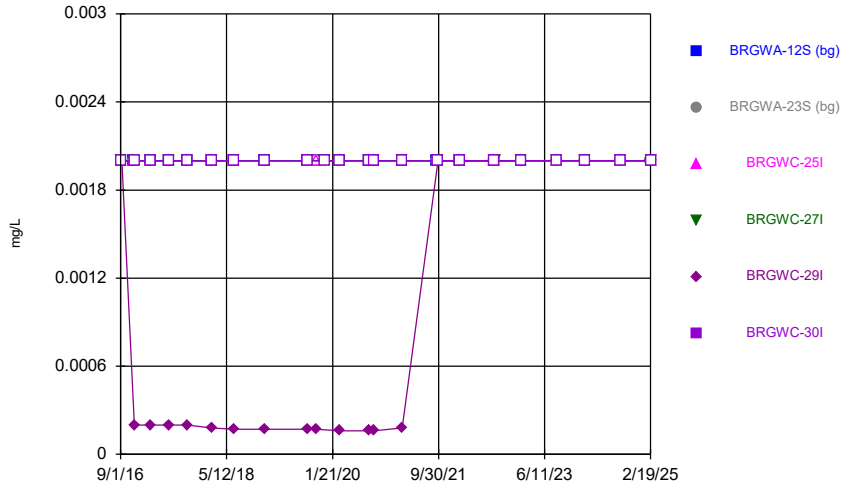
Time Series



Constituent: Thallium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

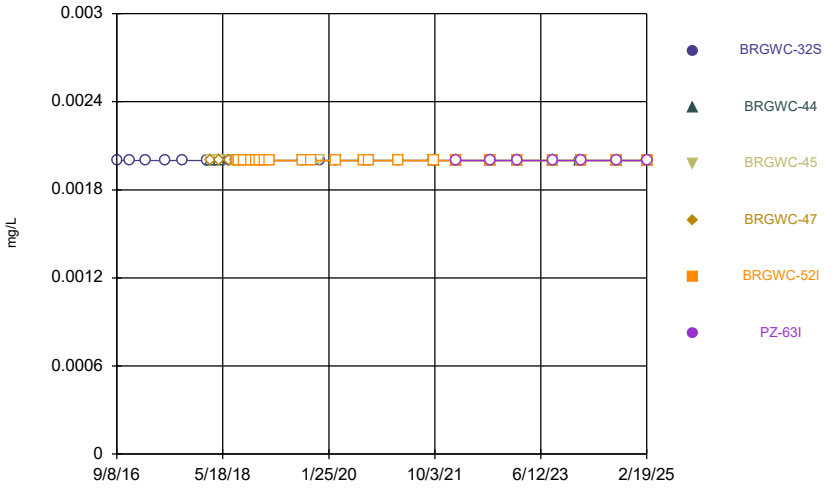
Time Series



Constituent: Thallium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

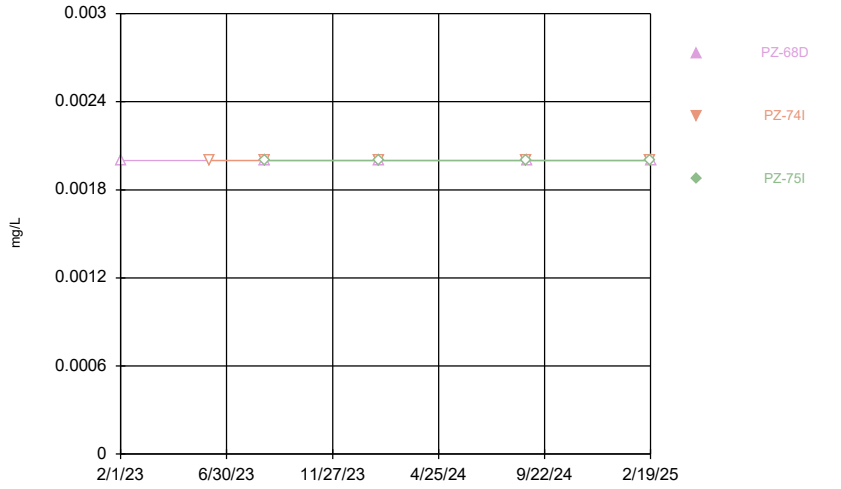
Time Series



Constituent: Thallium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 5/20/2025 3:06 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	0.0009 (J)	<0.003	<0.003	<0.003		
9/1/2016					<0.003	0.0015 (J)
11/15/2016				<0.003	<0.003	
11/16/2016	<0.003	<0.003	<0.003			<0.003
2/20/2017			<0.003	<0.003	<0.003	
2/21/2017	<0.003	<0.003				<0.003
6/12/2017	<0.003		<0.003	<0.003	<0.003	
6/13/2017		0.0011 (J)				
6/14/2017						0.0014 (J)
9/26/2017	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2018	<0.003	<0.003	<0.003	<0.003	<0.003	
2/14/2018						<0.003
6/26/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/18/2018	<0.003	<0.003	<0.003	0.00087 (J)	<0.003	0.009
8/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	0.0072
10/15/2019	0.00047 (J)	<0.003	<0.003	<0.003	<0.003	0.012
3/3/2020	<0.003	<0.003	<0.003	<0.003	<0.003	0.0063
8/18/2020	0.00054 (J)	0.00042 (J)	<0.003	0.0016 (J)	<0.003	0.0067
9/15/2020	<0.003	<0.003	<0.003	<0.003	<0.003	0.01
3/1/2021	<0.003				<0.003	
3/2/2021		<0.003	<0.003	<0.003		0.0095
9/21/2021			<0.003	<0.003		0.017
9/22/2021	<0.003	<0.003			<0.003	
2/1/2022	<0.003	<0.003	<0.003	<0.003	<0.003	0.011
8/23/2022	<0.003	<0.003	<0.003	<0.003	<0.003	0.0241
1/24/2023	<0.003	<0.003	<0.003	<0.003	<0.003	0.0245
8/22/2023	<0.003	<0.003	<0.003	<0.003	<0.003	
1/30/2024	<0.003	<0.003	<0.003	<0.003	<0.003	
8/27/2024	<0.003	<0.003	<0.003	<0.003	<0.003	
2/18/2025	<0.003	<0.003	<0.003	<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.003					
9/6/2016		<0.003				<0.003
9/8/2016			<0.003	<0.003	<0.003	
11/16/2016	0.0011 (J)					
11/17/2016		<0.003	<0.003			
11/18/2016				<0.003		
11/21/2016					<0.003	<0.003
2/21/2017	<0.003	<0.003	<0.003	<0.003		
2/22/2017					<0.003	<0.003
6/13/2017	0.0009 (J)	<0.003	<0.003	<0.003		
6/14/2017					0.0007 (J)	<0.003
9/26/2017	0.0032	<0.003				
9/27/2017			<0.003	<0.003	<0.003	<0.003
2/14/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/26/2018	<0.003	0.002 (J)	<0.003			
6/27/2018				<0.003	<0.003	
6/28/2018						<0.003
12/18/2018	<0.003	<0.003	<0.003		<0.003	<0.003
12/20/2018				<0.003		
8/27/2019	<0.003		<0.003			<0.003
8/28/2019				<0.003	<0.003	
8/29/2019		<0.003				
10/15/2019	<0.003	<0.003	<0.003			
10/16/2019					<0.003	
12/4/2019				<0.003		<0.003
3/3/2020	<0.003					
3/4/2020		<0.003	<0.003	<0.003	<0.003	
3/5/2020						<0.003
8/18/2020	<0.003	<0.003				
8/19/2020			<0.003	<0.003	<0.003	<0.003
9/15/2020	<0.003	0.00033 (J)	<0.003		<0.003	
9/16/2020				<0.003		<0.003
3/2/2021	<0.003	<0.003	<0.003			
3/3/2021				<0.003	<0.003	<0.003
9/21/2021	<0.003					
9/22/2021		<0.003				
9/28/2021			<0.003	<0.003	<0.003	<0.003
2/1/2022	<0.003	<0.003				
2/2/2022			<0.003			0.0013 (J)
2/3/2022					<0.003	
2/4/2022				<0.003		
8/23/2022	<0.003	<0.003	<0.003			
8/24/2022					<0.003	<0.003
8/25/2022				<0.003		
1/24/2023	<0.003	<0.003				
1/25/2023				<0.003		
1/26/2023			<0.003		<0.003	<0.003
8/22/2023		<0.003				<0.003
8/24/2023			<0.003	<0.003	<0.003	
1/30/2024		<0.003				<0.003
1/31/2024			<0.003	<0.003	<0.003	
8/27/2024		<0.003		<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/28/2024						<0.003
8/29/2024			<0.003			
2/18/2025		<0.003				
2/19/2025			<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.003					
11/21/2016	<0.003					
2/22/2017	<0.003					
6/14/2017	<0.003					
9/27/2017	<0.003					
2/14/2018	<0.003					
3/6/2018		<0.003	<0.003	<0.003		
5/1/2018		<0.003	<0.003	<0.003		
6/27/2018	<0.003			<0.003		
6/28/2018			<0.003			
7/31/2018			<0.003			
8/1/2018				<0.003		
8/10/2018					<0.003	
8/23/2018			<0.003	<0.003	0.00085 (J)	
9/19/2018			<0.003	<0.003	<0.003	
10/29/2018			<0.003	<0.003	<0.003	
11/28/2018			<0.003	<0.003	<0.003	
12/19/2018	<0.003			<0.003		
12/20/2018			0.0024 (J)		<0.003	
1/17/2019					<0.003	
2/13/2019					<0.003	
8/27/2019	<0.003					
8/28/2019			0.00046 (J)	<0.003		
8/29/2019					<0.003	
10/16/2019				<0.003	<0.003	
12/3/2019			0.00088 (J)			
12/4/2019	<0.003					
3/4/2020				<0.003	0.00043 (J)	
3/5/2020	0.0014 (J)		0.0016 (J)			
8/19/2020	<0.003					
8/20/2020			0.0031	<0.003	<0.003	
9/16/2020	<0.003		0.0012 (J)	0.00035 (J)		
9/17/2020					<0.003	
3/2/2021			0.0014 (J)	<0.003		
3/4/2021	<0.003				0.00091 (J)	
9/23/2021			<0.003	<0.003		
9/28/2021	<0.003	<0.003			<0.003	
2/2/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
2/4/2022						<0.003
8/23/2022				<0.003		
8/25/2022	<0.003	<0.003	<0.003		<0.003	<0.003
1/24/2023	<0.003					
1/25/2023		<0.003	<0.003		<0.003	
1/26/2023				<0.003		
1/30/2023						<0.003
8/22/2023	<0.003					
8/23/2023		<0.003				<0.003
8/24/2023			<0.003	<0.003	<0.003	
1/30/2024	<0.003	<0.003		<0.003		
2/1/2024			<0.003		<0.003	<0.003
8/27/2024		<0.003				
8/28/2024	<0.003			<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/29/2024			<0.003			<0.003
2/18/2025				<0.003		
2/19/2025	<0.003	<0.003	<0.003		<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.00176 (J)		
6/6/2023		<0.003	
8/23/2023	<0.003		
8/24/2023		<0.003	<0.003
2/1/2024	<0.003	<0.003	<0.003
8/27/2024		<0.003	<0.003
8/29/2024	<0.003		
2/18/2025		<0.003	<0.003
2/19/2025	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	<0.005	<0.005	<0.005	<0.005		
9/1/2016					<0.005	<0.005
11/15/2016				<0.005	<0.005	
11/16/2016	<0.005	<0.005	<0.005			<0.005
2/20/2017			<0.005	<0.005	<0.005	
2/21/2017	<0.005	<0.005				<0.005
6/12/2017	0.0007 (J)		0.0007 (J)	0.0006 (J)	<0.005	
6/13/2017		<0.005				
6/14/2017						0.0009 (J)
9/26/2017	0.001 (J)	<0.005	0.0009 (J)	0.0007 (J)	0.0007 (J)	0.0012 (J)
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
2/14/2018						<0.005
6/26/2018	0.00062 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
12/18/2018	<0.005	0.00082 (J)	0.00097 (J)	0.0011 (J)	0.00092 (J)	<0.005
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/15/2019	0.0008 (J)	0.00063 (J)	0.00058 (J)	0.00039 (J)	<0.005	0.00088 (J)
3/3/2020	0.0027 (J)	0.00098 (J)	0.0024 (J)	0.0027 (J)	0.0018 (J)	0.0023 (J)
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021	<0.005				<0.005	
3/2/2021		<0.005	<0.005	<0.005		<0.005
9/21/2021			<0.005	<0.005		<0.005
9/22/2021	<0.005	<0.005			<0.005	
2/1/2022	0.0012 (J)	<0.005	0.0013 (J)	0.0012 (J)	<0.005	0.0017 (J)
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	0.0021 (J)	<0.005
8/22/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
1/30/2024	<0.005	<0.005	<0.005	<0.005	<0.005	
8/27/2024	<0.005	<0.005	<0.005	<0.005	<0.005	
2/18/2025	<0.005	<0.005	<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.005					
9/6/2016		<0.005				<0.005
9/8/2016			<0.005	<0.005	<0.005	
11/16/2016	<0.005					
11/17/2016		<0.005	<0.005			
11/18/2016				<0.005		
11/21/2016					0.0019 (J)	<0.005
2/21/2017	<0.005	<0.005	<0.005	<0.005		
2/22/2017					<0.005	<0.005
6/13/2017	<0.005	0.0008 (J)	0.0006 (J)	0.0009 (J)		
6/14/2017					0.002 (J)	<0.005
9/26/2017	0.0006 (J)	0.0012 (J)				
9/27/2017			<0.005	0.0007 (J)	0.0016 (J)	<0.005
2/14/2018	<0.005	0.0007 (J)	<0.005	<0.005	<0.005	<0.005
6/26/2018	<0.005	0.00062 (J)	0.00072 (J)			
6/27/2018				<0.005	<0.005	
6/28/2018						0.00073 (J)
12/18/2018	<0.005	<0.005	0.00091 (J)		<0.005	<0.005
12/20/2018				<0.005		
8/27/2019	<0.005		<0.005			<0.005
8/28/2019				0.0014 (J)	0.00051 (J)	
8/29/2019		<0.005				
10/15/2019	0.00046 (J)	0.00075 (J)	0.00052 (J)			
10/16/2019					0.00065 (J)	
12/4/2019				0.0011 (J)		0.00056 (J)
3/3/2020	0.0015 (J)					
3/4/2020		<0.005	<0.005	<0.005	0.00044 (J)	
3/5/2020						<0.005
8/18/2020	<0.005	<0.005				
8/19/2020			<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005		<0.005	
9/16/2020				<0.005		<0.005
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	0.0015 (J)	<0.005
9/21/2021	<0.005					
9/22/2021		<0.005				
9/28/2021			<0.005	<0.005	<0.005	<0.005
2/1/2022	<0.005	0.0018 (J)				
2/2/2022			<0.005			<0.005
2/3/2022					<0.005	
2/4/2022				<0.005		
8/23/2022	<0.005	<0.005	<0.005			
8/24/2022					<0.005	0.00283 (J)
8/25/2022				<0.005		
1/24/2023	<0.005	<0.005				
1/25/2023				<0.005		
1/26/2023			<0.005		<0.005	0.00208 (J)
8/22/2023		<0.005				<0.005
8/24/2023			<0.005	<0.005	<0.005	
1/30/2024		<0.005				0.002 (J)
1/31/2024			<0.005	<0.005	<0.005	
8/27/2024		<0.005		<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/28/2024						<0.005
8/29/2024			<0.005			
2/18/2025		<0.005				
2/19/2025			<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.005					
11/21/2016	<0.005					
2/22/2017	<0.005					
6/14/2017	<0.005					
9/27/2017	<0.005					
2/14/2018	<0.005					
3/6/2018		0.00082 (J)	0.0018 (J)	0.0025 (J)		
5/1/2018		<0.005	0.0021 (J)	0.0016 (J)		
6/27/2018	<0.005			0.0016 (J)		
6/28/2018			0.0017 (J)			
7/31/2018			<0.005			
8/1/2018				0.0028 (J)		
8/10/2018					<0.005	
8/23/2018			0.00075 (J)	<0.005	<0.005	
9/19/2018			<0.005	<0.005	0.0013 (J)	
10/29/2018			<0.005	0.0012 (J)	0.0038 (J)	
11/28/2018			0.00096 (J)	0.0019 (J)	0.0016 (J)	
12/19/2018	<0.005			0.00075 (J)		
12/20/2018			<0.005		0.0032 (J)	
1/17/2019					0.0032 (J)	
2/13/2019					<0.005	
8/27/2019	<0.005					
8/28/2019			0.00058 (J)	0.0018 (J)		
8/29/2019					0.00067 (J)	
10/16/2019				<0.005	0.0026 (J)	
12/3/2019			0.0007 (J)			
12/4/2019	0.00053 (J)					
3/4/2020				0.00049 (J)	0.0047 (J)	
3/5/2020	<0.005		<0.005			
8/19/2020	<0.005					
8/20/2020			<0.005	0.00089 (J)	0.0031 (J)	
9/16/2020	<0.005		<0.005	<0.005		
9/17/2020					<0.005	
3/2/2021			<0.005	<0.005		
3/4/2021	<0.005				0.003 (J)	
9/23/2021			<0.005	0.002 (J)		
9/28/2021	<0.005	<0.005			<0.005	
2/2/2022	<0.005	0.004 (J)	<0.005	0.0056	<0.005	
2/4/2022						<0.005
8/23/2022				0.00228 (J)		
8/25/2022	<0.005	<0.005	<0.005		<0.005	<0.005
1/24/2023	<0.005					
1/25/2023		0.00221 (J)	0.00225 (J)		<0.005	
1/26/2023				0.0024 (J)		
1/30/2023						<0.005
8/22/2023	<0.005					
8/23/2023		<0.005				<0.005
8/24/2023			<0.005	0.0038 (J)	<0.005	
1/30/2024	<0.005	<0.005		<0.005		
2/1/2024			<0.005		<0.005	<0.005
8/27/2024		<0.005				
8/28/2024	<0.005			<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/29/2024			<0.005			<0.005
2/18/2025				<0.005		
2/19/2025	<0.005	<0.005	<0.005		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.0058		
6/6/2023		<0.005	
8/23/2023	0.00342 (J)		
8/24/2023		<0.005	<0.005
2/1/2024	<0.005	<0.005	<0.005
8/27/2024		<0.005	<0.005
8/29/2024	<0.005		
2/18/2025		<0.005	<0.005
2/19/2025	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	0.0239	0.0099 (J)	0.0273	0.0495		
9/1/2016					0.0142	0.0454
11/15/2016				0.0512	0.0126	
11/16/2016	0.0147	0.0102	0.0365			0.0623
2/20/2017			0.0336	0.0586	0.0142	
2/21/2017	0.0109	0.0094 (J)				0.0644
6/12/2017	0.0094 (J)		0.0322	0.0567	0.0134	
6/13/2017		0.0094 (J)				
6/14/2017						0.0726
9/26/2017	0.0156	0.0096 (J)	0.0364	0.0586	0.0133	0.0765
2/13/2018	0.0134	0.0102	0.054	0.054	0.0145	
2/14/2018						0.0786
6/26/2018	0.014	0.0093 (J)	0.032	0.063	0.014	0.063
12/18/2018	0.0076 (J)	0.01	0.038	0.045	0.013	0.067
8/27/2019	0.012	0.0095 (J)	0.028	0.056	0.013	0.058
10/15/2019	0.013	0.0091 (J)	0.032	0.049	0.013	0.06
3/3/2020	0.017	0.011	0.028	0.051	0.019	0.076
8/18/2020	0.01 (J)	0.01	0.022	0.04	0.014	0.053
9/15/2020	0.0083 (J)	0.0094 (J)	0.022	0.038	0.013	0.059
3/1/2021	0.0074				0.016	
3/2/2021		0.0094	0.023	0.037		0.053
9/21/2021			0.025	0.038		0.074
9/22/2021	0.0075	0.0097			0.014	
2/1/2022	0.0066	0.01	0.028	0.04	0.014	0.057
8/23/2022	0.00954	0.012	0.0241	0.0379	0.014	0.0602
1/24/2023	0.00453	0.0118	0.0303	0.0394	0.0132	0.0512
8/22/2023	0.0068	0.0135	0.0245	0.0352	0.0143	
1/30/2024	0.0124	0.0137	0.0296	0.0396	0.0151	
8/27/2024	0.00493	0.0132	0.0314	0.0362	0.0159	
2/18/2025	0.00462	0.0131	0.032	0.0334	0.0142	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	0.0528					
9/6/2016		0.0624				0.0206
9/8/2016			0.0378	0.0184	0.0199	
11/16/2016	0.0509					
11/17/2016		0.109	0.0448			
11/18/2016				0.0173		
11/21/2016					0.0221 (J)	0.0237 (J)
2/21/2017	0.0531	0.095	0.0447	0.015		
2/22/2017					0.0179	0.0219
6/13/2017	0.0543	0.0861	0.0351	0.0143		
6/14/2017					0.0157	0.0197
9/26/2017	0.0547	0.104				
9/27/2017			0.0383	0.017	0.0165	0.0213
2/14/2018	0.0603	0.129	0.0327	0.0166	0.0163	0.0236
6/26/2018	0.059	0.13	0.031			
6/27/2018				0.015	0.017	
6/28/2018						0.023
12/18/2018	0.056	0.13	0.03		0.017	0.029
12/20/2018				0.015		
8/27/2019	0.057		0.027			0.027
8/28/2019				0.019	0.02	
8/29/2019		0.076				
10/15/2019	0.053	0.069	0.027			
10/16/2019					0.019	
12/4/2019				0.016		0.021
3/3/2020	0.06					
3/4/2020		0.087	0.026	0.015	0.018	
3/5/2020						0.025
8/18/2020	0.058	0.067				
8/19/2020			0.027	0.016	0.019	0.026
9/15/2020	0.058	0.086	0.024		0.017	
9/16/2020				0.016		0.022
3/2/2021	0.063	0.097	0.026			
3/3/2021				0.016	0.021	0.028
9/21/2021	0.06					
9/22/2021		0.07				
9/28/2021			0.023	0.013	0.017	0.035
2/1/2022	0.064	0.08				
2/2/2022			0.023			0.031
2/3/2022					0.016	
2/4/2022				0.015		
8/23/2022	0.0607	0.0573	0.0259			
8/24/2022					0.0175	0.0389
8/25/2022				0.0161		
1/24/2023	0.0576	0.0468				
1/25/2023				0.0166		
1/26/2023			0.0293		0.018	0.0397
8/22/2023		0.0434				0.04
8/24/2023			0.0271	0.0151	0.0174	
1/30/2024		0.0431				0.0349
1/31/2024			0.0276	0.0155	0.0179	
8/27/2024		0.0432		0.0164	0.0163	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/28/2024						0.0339
8/29/2024			0.0291			
2/18/2025		0.0528				
2/19/2025			0.0254	0.0193	0.0168	0.0328

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	0.0593					
11/21/2016	0.0532					
2/22/2017	0.0498					
6/14/2017	0.0421					
9/27/2017	0.0411					
2/14/2018	0.0417					
3/6/2018		0.0461	0.1	0.0519		
5/1/2018		0.052	0.084	0.049		
6/27/2018	0.038			0.046		
6/28/2018			0.067			
7/31/2018			0.087			
8/1/2018				0.043		
8/10/2018					0.038	
8/23/2018			0.084	0.038	0.03	
9/19/2018			0.086	0.036	0.03	
10/29/2018			0.098	0.041	0.025	
11/28/2018			0.11	0.039	0.017	
12/19/2018	0.036			0.04		
12/20/2018			0.093		0.013	
1/17/2019					0.017	
2/13/2019					0.025	
8/27/2019	0.032					
8/28/2019			0.11	0.035		
8/29/2019					0.017	
10/16/2019				0.032	0.015	
12/3/2019			0.099			
12/4/2019	0.028					
3/4/2020				0.038	0.022	
3/5/2020	0.026		0.078			
8/19/2020	0.025					
8/20/2020			0.083	0.035	0.017	
9/16/2020	0.024		0.085	0.028		
9/17/2020					0.02	
3/2/2021			0.061	0.036		
3/4/2021	0.024				0.019	
9/23/2021			0.064	0.031		
9/28/2021	0.02	0.049			0.013	
2/2/2022	0.023	0.052	0.063	0.028	0.013	
2/4/2022						0.037
8/23/2022				0.0285		
8/25/2022	0.0231	0.056	0.0574		0.0179	0.023
1/24/2023	0.0182					
1/25/2023		0.0498	0.0695		0.0249	
1/26/2023				0.0311		
1/30/2023						0.022
8/22/2023	0.0243					
8/23/2023		0.0555				0.0221
8/24/2023			0.0524	0.028	0.0415	
1/30/2024	0.0192	0.052		0.0278		
2/1/2024			0.0497		0.0414	0.0202
8/27/2024		0.0524				
8/28/2024	0.0163			0.0257	0.0345	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/29/2024			0.0602			0.0206
2/18/2025				0.0266		
2/19/2025	0.0192	0.05	0.0629		0.039	0.0224

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.145		
6/6/2023		0.0586	
8/23/2023	0.107		
8/24/2023		0.0346	0.0513
2/1/2024	0.0853	0.0245	0.0421
8/27/2024		0.026	0.035
8/29/2024	0.0796		
2/18/2025		0.0222	0.0299
2/19/2025	0.0959		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	<0.0005	<0.0005	<0.0005	<0.0005		
9/1/2016					<0.0005	<0.0005
11/15/2016				<0.0005	<0.0005	
11/16/2016	<0.0005	<0.0005	<0.0005			<0.0005
2/20/2017			<0.0005	<0.0005	<0.0005	
2/21/2017	<0.0005	<0.0005				<0.0005
6/12/2017	<0.0005		<0.0005	<0.0005	<0.0005	
6/13/2017		<0.0005				
6/14/2017						<0.0005
9/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/13/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
2/14/2018						<0.0005
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/15/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/3/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/18/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/15/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/1/2021	<0.0005				<0.0005	
3/2/2021		<0.0005	<0.0005	<0.0005		<0.0005
9/21/2021			<0.0005	<0.0005		<0.0005
9/22/2021	<0.0005	<0.0005			<0.0005	
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/22/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1/30/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/27/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
2/18/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.0005					
9/6/2016		<0.0005				<0.0005
9/8/2016			<0.0005	0.0002 (J)	0.0011 (J)	
11/16/2016	<0.0005					
11/17/2016		<0.0005	<0.0005			
11/18/2016				0.0002 (J)		
11/21/2016					0.0012 (J)	<0.0005
2/21/2017	<0.0005	<0.0005	<0.0005	0.0002 (J)		
2/22/2017					0.0014 (J)	<0.0005
6/13/2017	<0.0005	<0.0005	<0.0005	0.0002 (J)		
6/14/2017					0.0012 (J)	<0.0005
9/26/2017	<0.0005	<0.0005				
9/27/2017			<0.0005	0.0001 (J)	0.001 (J)	<0.0005
2/14/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0005
6/26/2018	<0.0005	<0.0005	<0.0005			
6/27/2018				0.00014 (J)	0.0008 (J)	
6/28/2018						<0.0005
12/18/2018	<0.0005	<0.0005	<0.0005		0.00071 (J)	<0.0005
12/20/2018				0.00012 (J)		
8/27/2019	<0.0005		<0.0005			<0.0005
8/28/2019				0.00012 (J)	0.0008 (J)	
8/29/2019		<0.0005				
10/15/2019	<0.0005	<0.0005	<0.0005			
10/16/2019					0.00072 (J)	
10/17/2019				<0.0005		<0.0005
12/4/2019				0.00012 (J)		<0.0005
3/3/2020	<0.0005					
3/4/2020		<0.0005	<0.0005	0.00012 (J)	0.00073 (J)	
3/5/2020						<0.0005
8/18/2020	<0.0005	<0.0005				
8/19/2020			<0.0005	9.9E-05 (J)	0.00074 (J)	<0.0005
9/15/2020	<0.0005	<0.0005	<0.0005		0.00071 (J)	
9/16/2020				0.00011 (J)		<0.0005
3/2/2021	<0.0005	<0.0005	<0.0005			
3/3/2021				7.1E-05 (J)	0.00094	<0.0005
9/21/2021	<0.0005					
9/22/2021		<0.0005				
9/28/2021			<0.0005	<0.0005	0.00079	<0.0005
2/1/2022	<0.0005	<0.0005				
2/2/2022			<0.0005			<0.0005
2/3/2022					0.00083	
2/4/2022				5.4E-05 (J)		
8/23/2022	<0.0005	<0.0005	<0.0005			
8/24/2022					0.000845	<0.0005
8/25/2022				<0.0005		
1/24/2023	<0.0005	<0.0005				
1/25/2023				<0.0005		
1/26/2023			<0.0005		0.00109	<0.0005
8/22/2023		<0.0005				<0.0005
8/24/2023			<0.0005	<0.0005	0.00113	
1/30/2024		<0.0005				<0.0005
1/31/2024			<0.0005	<0.0005	0.00114	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/27/2024		<0.0005		<0.0005	0.000892	
8/28/2024						<0.0005
8/29/2024			<0.0005			
2/18/2025		<0.0005				
2/19/2025			<0.0005	0.000201 (J)	0.001	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.0005					
11/21/2016	<0.0005					
2/22/2017	<0.0005					
6/14/2017	<0.0005					
9/27/2017	<0.0005					
2/14/2018	<0.0005					
3/6/2018		<0.0005	<0.0005	<0.0005		
5/1/2018		<0.0005	<0.0005	<0.0005		
6/27/2018	<0.0005			<0.0005		
6/28/2018			<0.0005			
7/31/2018			<0.0005			
8/1/2018				<0.0005		
8/10/2018					<0.0005	
8/23/2018			7.9E-05 (J)	5.5E-05 (J)	<0.0005	
9/19/2018			<0.0005	<0.0005	<0.0005	
10/29/2018			<0.0005	<0.0005	<0.0005	
11/28/2018			<0.0005	5.6E-05 (J)	<0.0005	
12/19/2018	<0.0005			6E-05 (J)		
12/20/2018			<0.0005		<0.0005	
1/17/2019					<0.0005	
2/13/2019					<0.0005	
8/27/2019	<0.0005					
8/28/2019			<0.0005	<0.0005		
8/29/2019					<0.0005	
10/16/2019				<0.0005	<0.0005	
10/17/2019	<0.0005		<0.0005			
12/3/2019			<0.0005			
12/4/2019	<0.0005					
3/4/2020				<0.0005	<0.0005	
3/5/2020	<0.0005		<0.0005			
8/19/2020	<0.0005					
8/20/2020			4.6E-05 (J)	4.7E-05 (J)	<0.0005	
9/16/2020	<0.0005		<0.0005	<0.0005		
9/17/2020					<0.0005	
3/2/2021			<0.0005	<0.0005		
3/4/2021	<0.0005				<0.0005	
9/23/2021			<0.0005	<0.0005		
9/28/2021	<0.0005	<0.0005			<0.0005	
2/2/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
2/4/2022						<0.0005
8/23/2022				<0.0005		
8/25/2022	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
1/24/2023	<0.0005					
1/25/2023		<0.0005	<0.0005		<0.0005	
1/26/2023				<0.0005		
1/30/2023						<0.0005
8/22/2023	<0.0005					
8/23/2023		<0.0005				<0.0005
8/24/2023			<0.0005	<0.0005	<0.0005	
1/30/2024	<0.0005	<0.0005		<0.0005		
2/1/2024			<0.0005		<0.0005	0.000286 (J)
8/27/2024		<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/28/2024	<0.0005			<0.0005	<0.0005	
8/29/2024			<0.0005			<0.0005
2/18/2025				<0.0005		
2/19/2025	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.0005		
6/6/2023		<0.0005	
8/23/2023	<0.0005		
8/24/2023		<0.0005	<0.0005
2/1/2024	<0.0005	<0.0005	<0.0005
8/27/2024		<0.0005	<0.0005
8/29/2024	<0.0005		
2/18/2025		<0.0005	<0.0005
2/19/2025	<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	0.0072 (J)	<0.015	<0.015	<0.015		
9/1/2016					<0.015	0.0093 (J)
11/15/2016				0.0085 (J)	0.0123 (J)	
11/16/2016	0.0117 (J)	0.0109 (J)	0.0187 (J)			0.0127 (J)
2/20/2017			0.0066 (J)	0.0093 (J)	0.0157 (J)	
2/21/2017	0.0088 (J)	<0.015				0.0071 (J)
6/12/2017	0.0133 (J)		<0.015	<0.015	<0.015	
6/13/2017		<0.015				
6/14/2017						0.0078 (J)
9/26/2017	0.0093 (J)	<0.015	<0.015	<0.015	<0.015	<0.04
2/13/2018	0.0141 (J)	<0.015	<0.015	<0.015	<0.015	
2/14/2018						0.0068 (J)
6/26/2018	0.012 (J)	<0.015	0.0042 (J)	0.0056 (J)	0.0041 (J)	0.008 (J)
12/18/2018	0.0086 (J)	<0.015	<0.015	0.0062 (J)	<0.015	0.0083 (J)
3/19/2019	0.0055 (J)	<0.015	<0.015	<0.015	<0.015	0.008 (J)
10/15/2019	0.0067 (J)	<0.015	<0.015	0.006 (J)	0.01 (J)	0.006 (J)
3/3/2020	0.0082 (J)	<0.015	<0.015	<0.015	<0.015	0.01 (J)
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015	0.0071 (J)
3/1/2021	<0.015				<0.015	
3/2/2021		<0.015	0.0053 (J)	0.0071 (J)		0.0057 (J)
9/21/2021			<0.015	<0.015		<0.04
9/22/2021	<0.015	<0.015			<0.015	
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	<0.04
8/23/2022	0.00592 (J)	0.00532 (J)	<0.015	0.00538 (J)	<0.015	0.00653 (J)
1/24/2023	<0.015	<0.015	<0.015	<0.015	<0.015	0.00884 (J)
8/22/2023	0.00649 (J)	0.00738 (J)	0.0073 (J)	0.00764 (J)	0.00611 (J)	
1/30/2024	<0.015	<0.015	<0.015	<0.015	<0.015	
8/27/2024	<0.015	<0.015	<0.015	0.00538 (J)	<0.015	
2/18/2025	<0.015	<0.015	0.00591 (J)	0.00548 (J)	<0.015	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.015					
9/6/2016		0.0362 (J)				1.96
9/8/2016			1.03	1.63	1.35	
11/16/2016	0.0081 (J)					
11/17/2016		0.0617	1.7			
11/18/2016				1.91		
11/21/2016					1.74	1.68
2/21/2017	<0.015	0.0245 (J)	1.55	1.39		
2/22/2017					1.5	1.48
6/13/2017	<0.015	<0.04	1.77	1.62		
6/14/2017					1.6	1.71
9/26/2017	<0.015	<0.04				
9/27/2017			1.75	1.16	1.83	1.61
2/14/2018	<0.015	0.0314 (J)	1.47	1.17	1.8	1.47
6/26/2018	<0.015	0.062	1.8			
6/27/2018				1.4	1.8	
6/28/2018						1.4
12/18/2018	0.0053 (J)	0.055	1.5		1.5	1.6
12/20/2018				1.4		
3/19/2019	<0.015	0.068		1.1		
3/20/2019			1.5		1.5	1.7
10/15/2019	<0.015	0.022 (J)	1.2			
10/16/2019					1.2	
10/17/2019				0.97		1.7
12/4/2019				0.89		1.6
3/3/2020	0.0065 (J)					
3/4/2020		0.044 (J)	1.2	0.81	1.1	
3/5/2020						1.5
9/15/2020	<0.015	0.033 (J)	1.2		1.1	
9/16/2020				1.2		1.7
3/2/2021	<0.015	0.042	1.1			
3/3/2021				0.91	1	1.4
9/21/2021	<0.015					
9/22/2021		0.047				
9/28/2021			1.1	0.95	0.9	1.7
2/1/2022	<0.015	0.046				
2/2/2022			1.1			1.9
2/3/2022					0.93	
2/4/2022				1		
8/23/2022	<0.015	0.0498	1.38			
8/24/2022					1.13	2.15
8/25/2022				1.03		
1/24/2023	0.0053 (J)	0.0437				
1/25/2023				1.14		
1/26/2023			1.45		1.07	2.17
8/22/2023		0.039				2.05
8/24/2023			1.95	1.25	1.34	
1/30/2024		0.0389				2.36
1/31/2024			1.61	1.17	1.11	
5/8/2024				1.3		
8/27/2024		0.0315		1.28	1.09	
8/28/2024						1.82

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/29/2024			2.04			
2/18/2025		0.0393				
2/19/2025			1.63	1.02	1.56	1.92

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	1.28					
11/21/2016	1.19					
2/22/2017	1.43					
6/14/2017	1.57					
9/27/2017	1.51					
2/14/2018	1.6					
3/6/2018		2.12	0.0198 (J)	0.428		
5/1/2018		1.5	0.015 (J)	0.45		
6/27/2018	1.5			0.49		
6/28/2018			0.025 (J)			
7/31/2018			0.035 (J)			
8/1/2018				0.39		
8/10/2018					1.3	
8/23/2018			0.022 (J)	0.39	1.4	
9/19/2018			0.021 (J)	0.43	1.7	
10/29/2018			0.021 (J)	0.4	1.3	
11/28/2018			0.026 (J)	0.51	1.5	
12/19/2018	1.6			0.41		
12/20/2018			0.028 (J)		1.6	
1/17/2019					1.5	
2/13/2019					1.7	
3/19/2019				0.41		
3/20/2019	1.4		0.043		1.6	
10/16/2019				0.36	1.3	
10/17/2019	1.5		0.064			
12/3/2019			0.027 (J)			
12/4/2019	1.6					
3/4/2020				0.49	1.4	
3/5/2020	1.5		0.044 (J)			
9/16/2020	1.4		0.028 (J)	0.47		
9/17/2020					1.9	
3/2/2021			0.044	0.58		
3/4/2021	1.1				1.4	
9/23/2021			0.029 (J)	0.47		
9/28/2021	0.91	1.3			1.4	
2/2/2022	1	1.6	0.034 (J)	0.48	1.5	
2/4/2022						0.67
8/23/2022				0.547		
8/25/2022	1.07	1.59	0.0458		1.56	0.672
1/24/2023	1.11					
1/25/2023		1.47	0.0355		1.79	
1/26/2023				0.661		
1/30/2023						0.82
8/22/2023	1.13					
8/23/2023		1.35				0.706
8/24/2023			0.0444	0.689	1.87	
1/30/2024	1.23	1.27		0.618		
2/1/2024			0.0355		1.61	0.714
5/8/2024	1.01					
8/27/2024		1.16				
8/28/2024	0.996			0.508	1.44	
8/29/2024			0.0431			0.731

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
2/18/2025				0.682		
2/19/2025	1.05	1.13	0.0537		1.67	0.712

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.255		
6/6/2023		1.24	
7/5/2023			1.29
8/23/2023	0.318		
8/24/2023		1.47	1.51
2/1/2024	0.384	1.32	1.36
8/27/2024		1.2	1.2
8/29/2024	0.404		
2/18/2025		1.25	1.31
2/19/2025	0.389		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	<0.001	<0.001	<0.001	<0.001		
9/1/2016					<0.001	<0.001
11/15/2016				<0.001	<0.001	
11/16/2016	<0.001	<0.001	<0.001			<0.001
2/20/2017			<0.001	<0.001	<0.001	
2/21/2017	<0.001	<0.001				<0.001
6/12/2017	<0.001		<0.001	<0.001	<0.001	
6/13/2017		<0.001				
6/14/2017						<0.001
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
2/14/2018						<0.001
6/26/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/31/2018						<0.001
12/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/3/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2021	<0.001				<0.001	
3/2/2021		<0.001	<0.001	<0.001		<0.001
9/21/2021			<0.001	<0.001		<0.001
9/22/2021	<0.001	<0.001			<0.001	
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/22/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
1/30/2024	<0.001	<0.001	<0.001	<0.001	<0.001	
8/27/2024	<0.001	<0.001	<0.001	<0.001	<0.001	
2/18/2025	<0.001	<0.001	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.001					
9/6/2016		<0.001				<0.001
9/8/2016			<0.001	7E-05 (J)	<0.001	
11/16/2016	<0.001					
11/17/2016		<0.001	<0.001			
11/18/2016				9E-05 (J)		
11/21/2016					<0.001	8E-05 (J)
2/21/2017	<0.001	<0.001	<0.001	<0.001		
2/22/2017					<0.001	<0.001
6/13/2017	<0.001	<0.001	<0.001	<0.001		
6/14/2017					<0.001	<0.001
9/26/2017	<0.001	<0.001				
9/27/2017			<0.001	<0.001	<0.001	<0.001
2/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/26/2018	<0.001	0.00015 (J)	<0.001			
6/27/2018				<0.001	<0.001	
6/28/2018						<0.001
7/31/2018	<0.001					
12/18/2018	<0.001	0.0001 (J)	<0.001		<0.001	<0.001
12/20/2018				<0.001		
8/27/2019	<0.001		<0.001			<0.001
8/28/2019				<0.001	<0.001	
8/29/2019		<0.001				
10/15/2019	<0.001	<0.001	<0.001			
10/16/2019					<0.001	
10/17/2019				<0.001		<0.001
12/4/2019				<0.001		<0.001
3/3/2020	<0.001					
3/4/2020		<0.001	<0.001	<0.001	<0.001	
3/5/2020						<0.001
8/18/2020	<0.001	<0.001				
8/19/2020			<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001		<0.001	
9/16/2020				<0.001		<0.001
3/2/2021	<0.001	<0.001	<0.001			
3/3/2021				<0.001	<0.001	<0.001
9/21/2021	<0.001					
9/22/2021		<0.001				
9/28/2021			<0.001	<0.001	<0.001	<0.001
2/1/2022	<0.001	<0.001				
2/2/2022			<0.001			0.00014 (J)
2/3/2022					<0.001	
2/4/2022				<0.001		
8/23/2022	<0.001	<0.001	<0.001			
8/24/2022					<0.001	<0.001
8/25/2022				<0.001		
1/24/2023	<0.001	<0.001				
1/25/2023				<0.001		
1/26/2023			<0.001		<0.001	<0.001
8/22/2023		<0.001				<0.001
8/24/2023			<0.001	<0.001	<0.001	
1/30/2024		<0.001				<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
1/31/2024			<0.001	<0.001	<0.001	
8/27/2024		<0.001		<0.001	<0.001	
8/28/2024						<0.001
8/29/2024			<0.001			
2/18/2025		<0.001				
2/19/2025			<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.001					
11/21/2016	8E-05 (J)					
2/22/2017	0.0001 (J)					
6/14/2017	<0.001					
9/27/2017	<0.001					
2/14/2018	<0.001					
3/6/2018		<0.001	<0.001	<0.001		
5/1/2018		<0.001	<0.001	<0.001		
6/27/2018	0.00011 (J)			0.00014 (J)		
6/28/2018			<0.001			
7/31/2018			<0.001			
8/1/2018				0.00011 (J)		
8/10/2018					<0.001	
8/23/2018			<0.001	0.00018 (J)	<0.001	
9/19/2018			<0.001	0.00015 (J)	<0.001	
10/29/2018			9.8E-05 (J)	0.00019 (J)	<0.001	
11/28/2018			<0.001	0.00022 (J)	<0.001	
12/19/2018	0.00012 (J)			<0.001		
12/20/2018			0.00029 (J)		<0.001	
1/17/2019					<0.001	
2/13/2019					<0.001	
8/27/2019	<0.001					
8/28/2019			<0.001	0.00017 (J)		
8/29/2019					<0.001	
10/16/2019				0.00018 (J)	<0.001	
10/17/2019	<0.001		<0.001			
12/3/2019			0.00011 (J)			
12/4/2019	<0.001					
3/4/2020				0.00024 (J)	<0.001	
3/5/2020	<0.001		<0.001			
8/19/2020	<0.001					
8/20/2020			0.00014 (J)	<0.001	<0.001	
9/16/2020	<0.001		<0.001	<0.001		
9/17/2020					<0.001	
3/2/2021			0.0002 (J)	<0.001		
3/4/2021	<0.001				<0.001	
9/23/2021			<0.001	<0.001		
9/28/2021	<0.001	<0.001			<0.001	
2/2/2022	<0.001	<0.001	<0.001	0.00015 (J)	<0.001	
2/4/2022						<0.001
8/23/2022				<0.001		
8/25/2022	<0.001	<0.001	<0.001		<0.001	<0.001
1/24/2023	<0.001					
1/25/2023		<0.001	<0.001		<0.001	
1/26/2023				<0.001		
1/30/2023						<0.001
8/22/2023	<0.001					
8/23/2023		<0.001				<0.001
8/24/2023			<0.001	<0.001	<0.001	
1/30/2024	<0.001	<0.001		<0.001		
2/1/2024			<0.001		<0.001	<0.001
8/27/2024		<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/28/2024	<0.001			<0.001	<0.001	
8/29/2024			<0.001			<0.001
2/18/2025				<0.001		
2/19/2025	<0.001	<0.001	<0.001		<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.001		
6/6/2023		<0.001	
8/23/2023	<0.001		
8/24/2023		<0.001	<0.001
2/1/2024	<0.001	<0.001	<0.001
8/27/2024		<0.001	<0.001
8/29/2024	<0.001		
2/18/2025		<0.001	<0.001
2/19/2025	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	12.6	4.09	13.5	19.6		
9/1/2016					3.3	8.98
11/15/2016				21.7	3.44	
11/16/2016	12.1	4.25	14.9			15.4
2/20/2017			13.9	21.1	3.52	
2/21/2017	11.4	4.02				17.4
6/12/2017	9.34		13.7	21.5	3.11	
6/13/2017		3.84				
6/14/2017						18.1
9/26/2017	14.3	3.31	14.4	24	3.15	19.3
2/13/2018	<25	3.94	<25	<25	3.65	
2/14/2018						<25
6/26/2018	16 (J)	3.6	13.5 (J)	23.5 (J)	3.3	15.5 (J)
7/31/2018						18.2 (J)
12/18/2018	14.5 (J)	3.8	16.4 (J)	19.8 (J)	3.5	18.7 (J)
3/19/2019	14.3 (J)	3.9	12.3 (J)	21.4 (J)	3.6	15.9 (J)
10/15/2019	15.1	3.7	14.4	20	3.5	15.9
3/3/2020	20	4	14.9	23.2	5	19.4
9/15/2020	14.1	3.9	12.7	16.8	3.7	14.5
3/1/2021	15.4				4.2	
3/2/2021		4	13.2	16.8		11.7
9/21/2021			14.1	19.1		16.4
9/22/2021	15.9	4.3			4.1	
2/1/2022	14.4	4.4	14.5	19.1	4.2	14.2
8/23/2022	13.9	4.65	14.3	18.2	3.97	15.8
1/24/2023	14.2	4.86	15.8	19.4	3.9	13.7
8/22/2023	12.6	5.02	14.3	14.9	3.79	
1/30/2024	14.1	5.25	16	18.2	4.27	
8/27/2024	12.4	5.45	15.9	17.2	4.19	
2/18/2025	13.8	5.76	16.9	16.5	4.11	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	4.61					
9/6/2016		12.8				63.3
9/8/2016			59.4	87.2	93.9	
11/16/2016	4.17					
11/17/2016		19.2	78.4			
11/18/2016				82.4		
11/21/2016					99.1	60.7
2/21/2017	5	15.1	80.9	75.1		
2/22/2017					105	62.1
6/13/2017	4.98	10.2	62	61		
6/14/2017					91.3	63.5
9/26/2017	4.49	15				
9/27/2017			65.8	72.6	84	63.5
2/14/2018	<25	<25	58.8	74.1	72.1	62.8
6/26/2018	6.4	18.5 (J)	55.5			
6/27/2018				68.2	61.1	
6/28/2018						73.3
7/31/2018	6.1					
12/18/2018	5.5	16.8 (J)	54.7		52.9	102
12/20/2018				63.9		
3/19/2019	5.9	13.5 (J)		60.2		
3/20/2019			54.2		55.4	141
10/15/2019	6.2	8.6	48.3			
10/16/2019					54	
12/4/2019				76.8		92.6
3/3/2020	6.8					
3/4/2020		11.5	52	72.3	59.3	
3/5/2020						119
9/15/2020	5.7	10.7	40.1		55.1	
9/16/2020				62.5		106
3/2/2021	5.4	11.6	44.1			
3/3/2021				58.2	73.3	122
9/21/2021	5.4					
9/22/2021		9.2				
9/28/2021			38.4	50.4	59.5	212
2/1/2022	5.3	10.7				
2/2/2022			44.3			232
2/3/2022					58.7	
2/4/2022				61.7		
8/23/2022	6.09	8.09	51.5			
8/24/2022					61	316
8/25/2022				64		
1/24/2023	5.62	6.97				
1/25/2023				55.7		
1/26/2023			57.6		68	361
8/22/2023		5.95				414
8/24/2023			69.6	74.4	71.4	
1/30/2024		6.19				441
1/31/2024			67.4	60	89.3	
5/8/2024				71.2		
8/27/2024		5.88		75.9	70.5	
8/28/2024						419

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/29/2024			77.6			
2/18/2025		7.17				
2/19/2025			73	46.4	119	442

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	60.5					
11/21/2016	31.1					
2/22/2017	67.3					
6/14/2017	60.2					
9/27/2017	68.4					
2/14/2018	70.2					
3/6/2018		<25	39.5	326		
5/1/2018		<25	45.5	305		
6/27/2018	67.1			340		
6/28/2018			41.9			
7/31/2018			41.5			
8/1/2018				358		
8/10/2018					410 (O)	
8/23/2018			42.3	323	33.9	
9/19/2018			41.9	321	42.3	
10/29/2018			40.8	326	39.8	
11/28/2018			45.1	354	38.2	
12/19/2018	61.2			330		
12/20/2018			39		43.2	
1/17/2019					39.4	
2/13/2019					36.9	
3/19/2019				335		
3/20/2019	52.8		31.2		40.3	
10/16/2019				338	48.4	
12/3/2019			43.7			
12/4/2019	52.7					
3/4/2020				353	49.5	
3/5/2020	52.1		37.9			
9/16/2020	43.1		39.7	309		
9/17/2020					35.4	
3/2/2021			33.9	353		
3/4/2021	35.7				47.5	
9/23/2021			32	336		
9/28/2021	33.9	24.2			39.5	
2/2/2022	44.2	25.1	33.8	320	40.1	
2/4/2022						42.2
8/23/2022				323		
8/25/2022	48.5	27.2	33.5		38.3	45.1
1/24/2023	46.6					
1/25/2023		25.1	34.3		36.3	
1/26/2023				331		
1/30/2023						49.8
8/22/2023	45.1					
8/23/2023		26.5				56.8
8/24/2023			34	347	37.4	
1/30/2024	47.4	26		340		
2/1/2024			32.8		36.4	57.3
5/8/2024	37.9					
8/27/2024		24.9				
8/28/2024	37.4			302	36.8	
8/29/2024			42.9			65.6
2/18/2025				322		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
2/19/2025	37.7	24.5	44.3		40.1	75.5

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	86.1		
6/6/2023		70.1	
7/5/2023			48.7
8/23/2023	86.4		
8/24/2023		69.2	47
2/1/2024	94.3	62.5	50.8
8/27/2024		68.8	49.8
8/29/2024	96.7		
2/18/2025		61.8	48.1
2/19/2025	93.6		

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	2.3	2	4.4	3.6		
9/1/2016					2.5	3.3
11/15/2016				4	2.3	
11/16/2016	2	1.8	4.4			3.6
2/20/2017			4.8	3.9	2.4	
2/21/2017	2	1.8				3.2
6/12/2017	2.1		4.2	3.8	2.2	
6/13/2017		1.7				
6/14/2017						3.1
9/26/2017	2	1.8	4.4	4.1	2.3	3.3
2/13/2018	2.1	1.7	4.7	4.1	2.3	
2/14/2018						3.1
6/26/2018	2.4	2.2	4.5	4.1	2.6	3.4
7/31/2018						2.6
12/18/2018	1.8	1.9	4.5	3.8	2.3	2.8
3/19/2019	2.5	2	4.5	4.2	2.6	3.2
10/15/2019	2.2	1.9	4.2	3.7	2.4	3.1
3/3/2020	1.9	1.9	3.9	3.6	2.9	2.6
9/15/2020	1.9	1.7	3.7	3.7	2.3	2.4
3/1/2021	1.8				2.1	
3/2/2021		1.7	3.8	3.7		2.6
9/21/2021			3.2	3.2		2.1
9/22/2021	1.7	1.5			2.1	
2/1/2022	1.8	1.6	3.5	3.4	2.1	2.2
8/23/2022	2.02	2.18	3.64	3.59	2.39	2.5
1/24/2023	2.09	2.16	3.93	3.56	2.3	2.49
8/22/2023	1.9	2.14	3.53	3.37	2.34	
1/30/2024	2.35	2.14	3.98	3.52	3.23	
8/27/2024	2.16	2.17	3.88	3.49	2.28	
2/18/2025	2.09	2.09	4.05	3.34	2.25	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	3.5					
9/6/2016		5.8				6.7
9/8/2016			5.5	6	6.4	
11/16/2016	3.6					
11/17/2016		4.3	7.7			
11/18/2016				6.3		
11/21/2016					6.9	6.5
2/21/2017	3.2	3.5	7.3	5.1		
2/22/2017					6.2	5.6
6/13/2017	3.3	3.2	7.5	4.7		
6/14/2017					7.2	5.7
9/26/2017	3.3	3.5				
9/27/2017			7.9	4.9	8.7	6
2/14/2018	3.5	3.8	6.7	5.6	7.2	5.9
6/26/2018	3.4	3.8	6.7			
6/27/2018				5.9	6.3	
6/28/2018						7
7/31/2018	2.9					
12/18/2018	2.9	3.9	6.2		5.4	5.8
12/20/2018				5.6		
3/19/2019	3.5	3.8		5.8		
3/20/2019			6.4		5.6	5.8
10/15/2019	3.4	3.5	5			
10/16/2019					6.9	
12/4/2019				5.6		5
3/3/2020	3.2					
3/4/2020		3.3	5	5.1	5.8	
3/5/2020						4.3
9/15/2020	3.5	3.1	4.9		5.5	
9/16/2020				5.4		4.4
3/2/2021	3.7	3.5	4.5			
3/3/2021				4.5	5.6	4
9/21/2021	3.5					
9/22/2021		2.8				
9/28/2021			4.2	3.7	5.4	3.4
2/1/2022	3.6	3.2				
2/2/2022			4.2			4
2/3/2022					6.1	
2/4/2022				4.6		
8/23/2022	5.46	3.16	5.38			
8/24/2022					5.84	4.91
8/25/2022				4.65		
1/24/2023	3.79	2.88				
1/25/2023				3.81		
1/26/2023			6.96		5.59	3.82
8/22/2023		2.41				3.35
8/24/2023			8.47	4.81	6.08	
1/30/2024		2.4				3.52
1/31/2024			8.73	4.05	7.94	
5/8/2024				5.06		
8/27/2024		2.16		4.47	8.87	
8/28/2024						3.48

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/29/2024			13.7			
2/18/2025		2.16				
2/19/2025			12.5	3.08	8.25	2.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	6.8					
11/21/2016	7.8					
2/22/2017	7					
6/14/2017	7.1					
9/27/2017	7.2					
2/14/2018	7.4					
3/6/2018		6	56.6	8.4		
5/1/2018		6	58.5	5.8		
6/27/2018	7.1			4.4		
6/28/2018			50.2			
7/31/2018			59			
8/1/2018				5.2		
8/10/2018					6.9	
8/23/2018			54	3.6	7.5	
9/19/2018			58.4	4.1	6.6	
10/29/2018			62.6	4.3	7.8	
11/28/2018			58.1	5.1	7.2	
12/19/2018	7			4.5		
12/20/2018			47.2		6.6	
1/17/2019					6.4	
2/13/2019					6.5	
3/19/2019				4.7		
3/20/2019	7.3		27.7		6.7	
10/16/2019				4.6	7	
12/3/2019			52.8			
12/4/2019	6.6					
3/4/2020				4.2	6.1	
3/5/2020	6		37.1			
9/16/2020	5.6		54.9	4.1		
9/17/2020					6.3	
3/2/2021			25.8	4.8		
3/4/2021	4.6				5.6	
9/23/2021			29.3	4.3		
9/28/2021	3.6	5			5.5	
2/2/2022	3.8	5.5	23.4	4.2	6.1	
2/4/2022						6.2
8/23/2022				4.49		
8/25/2022	3.96	6.28	14.9		6.27	6.15
1/24/2023	4.49					
1/25/2023		5.84	27.4		6.35	
1/26/2023				4.96		
1/30/2023						7.18
8/22/2023	4.3					
8/23/2023		6.83				6.81
8/24/2023			16.5	4.67	6.28	
1/30/2024	4.1	6.36		4.74		
2/1/2024			17.2		6.3	7.16
5/8/2024	4.11					
8/27/2024		5.99				
8/28/2024	4.09			4.57	6.58	
8/29/2024			24.8			6.86
2/18/2025				4.54		

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
2/19/2025	3.9	6.18	21.2		6.43	7.57

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	12.7		
6/6/2023		8.22	
7/5/2023			7.18
8/23/2023	23		
8/24/2023		14.8	6.84
2/1/2024	19.9	18.1	7.21
8/27/2024		27.1	6.31
8/29/2024	18.1		
2/18/2025		13.7	6.06
2/19/2025	16.8		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	0.001 (J)	0.0034 (J)	0.0058 (J)	0.0028 (J)		
9/1/2016					0.0147	0.0009 (J)
11/15/2016				0.003 (J)	0.0154	
11/16/2016	<0.01	0.0029 (J)	0.0051 (J)			0.0015 (J)
2/20/2017			0.0049 (J)	0.0047 (J)	0.014	
2/21/2017	<0.01	0.0036 (J)				0.001 (J)
6/12/2017	0.0005 (J)		0.0052 (J)	0.0041 (J)	0.016	
6/13/2017		0.0038 (J)				
6/14/2017						0.0012 (J)
9/26/2017	0.0005 (J)	0.0045 (J)	0.0039 (J)	0.0037 (J)	0.0144	0.0014 (J)
2/13/2018	<0.01	<0.01	<0.01	<0.01	0.0144	
2/14/2018						<0.01
6/26/2018	<0.01	0.008 (J)	0.0053 (J)	0.0043 (J)	0.015	<0.01
12/18/2018	<0.01	0.012	0.0032 (J)	0.0054 (J)	0.015	0.0016 (J)
8/27/2019	0.0004 (J)	0.0083 (J)	0.0055 (J)	0.0043 (J)	0.015	0.0023 (J)
10/15/2019	<0.01	0.0083 (J)	0.0047 (J)	0.0055 (J)	0.014	0.0021 (J)
3/3/2020	0.00047 (J)	0.0098 (J)	0.0069 (J)	0.0057 (J)	0.011	0.0026 (J)
8/18/2020	0.00096 (J)	0.0085 (J)	0.0069 (J)	0.005 (J)	0.015	0.0023 (J)
9/15/2020	<0.01	0.0082 (J)	0.0069 (J)	0.0048 (J)	0.014	0.00096 (J)
3/1/2021	<0.01				0.011	
3/2/2021		0.0074	0.0064	0.0044 (J)		0.002 (J)
9/21/2021			0.0064	0.0044 (J)		0.0023 (J)
9/22/2021	<0.01	0.0091			0.014	
2/1/2022	0.0013 (J)	0.0092	0.0066	0.0052	0.015	0.0027 (J)
8/23/2022	<0.01	0.00908 (J)	0.00647 (J)	0.00435 (J)	0.0143	<0.01
1/24/2023	<0.01	0.0095 (J)	0.00513 (J)	0.00572 (J)	0.0139	<0.01
8/22/2023	<0.01	0.00921 (J)	0.00701 (J)	0.00472 (J)	0.0132	
1/30/2024	0.00458 (J)	0.00854 (J)	0.00551 (J)	0.00582 (J)	0.0139	
8/27/2024	0.00445 (J)	0.00799 (J)	0.00521 (J)	0.00604 (J)	0.0124	
2/18/2025	<0.01	0.00765 (J)	0.00451 (J)	0.00705 (J)	0.0123	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	0.0013 (J)					
9/6/2016		<0.01				<0.01
9/8/2016			<0.01	0.001 (J)	<0.01	
11/16/2016	0.0012 (J)					
11/17/2016		<0.01	<0.01			
11/18/2016				<0.01		
11/21/2016					<0.01	<0.01
2/21/2017	0.0017 (J)	<0.01	<0.01	<0.01		
2/22/2017					<0.01	<0.01
6/13/2017	0.0019 (J)	<0.01	<0.01	<0.01		
6/14/2017					<0.01	<0.01
9/26/2017	0.0018 (J)	<0.01				
9/27/2017			<0.01	<0.01	<0.01	<0.01
2/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6/26/2018	0.0022 (J)	<0.01	<0.01			
6/27/2018				<0.01	<0.01	
6/28/2018						<0.01
12/18/2018	0.0022 (J)	<0.01	<0.01		<0.01	<0.01
12/20/2018				0.003 (J)		
8/27/2019	0.0024 (J)		0.0016 (J)			0.0051 (J)
8/28/2019				<0.01	<0.01	
8/29/2019		0.0016 (J)				
10/15/2019	0.0023 (J)	0.0017 (J)	0.00098 (J)			
10/16/2019					<0.01	
12/4/2019				<0.01		<0.01
3/3/2020	0.0028 (J)					
3/4/2020		0.0019 (J)	<0.01	<0.01	0.02	
3/5/2020						<0.01
8/18/2020	0.0029 (J)	0.0017 (J)				
8/19/2020			<0.01	<0.01	<0.01	<0.01
9/15/2020	0.0025 (J)	0.0019 (J)	<0.01		<0.01	
9/16/2020				<0.01		0.014
3/2/2021	0.0021 (J)	0.002 (J)	<0.01			
3/3/2021				<0.01	<0.01	<0.01
9/21/2021	0.0024 (J)					
9/22/2021		0.0026 (J)				
9/28/2021			<0.01	<0.01	<0.01	<0.01
2/1/2022	0.0029 (J)	0.0028 (J)				
2/2/2022			<0.01			<0.01
2/3/2022					<0.01	
2/4/2022				<0.01		
8/23/2022	<0.01	<0.01	<0.01			
8/24/2022					<0.01	<0.01
8/25/2022				<0.01		
1/24/2023	<0.01	<0.01				
1/25/2023				<0.01		
1/26/2023			<0.01		<0.01	<0.01
8/22/2023		<0.01				<0.01
8/24/2023			<0.01	<0.01	<0.01	
1/30/2024		<0.01				<0.01
1/31/2024			<0.01	<0.01	<0.01	
8/27/2024		<0.01		<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/28/2024						<0.01
8/29/2024			<0.01			
2/18/2025		<0.01				
2/19/2025			<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.01					
11/21/2016	<0.01					
2/22/2017	0.0012 (J)					
6/14/2017	0.0009 (J)					
9/27/2017	0.0011 (J)					
2/14/2018	<0.01					
3/6/2018		<0.01	<0.01	<0.01		
5/1/2018		<0.01	<0.01	<0.01		
6/27/2018	<0.01			<0.01		
6/28/2018			<0.01			
7/31/2018			<0.01			
8/1/2018				<0.01		
8/10/2018					0.0017 (J)	
8/23/2018			<0.01	<0.01	<0.01	
9/19/2018			<0.01	<0.01	<0.01	
10/29/2018			<0.01	<0.01	<0.01	
11/28/2018			<0.01	<0.01	<0.01	
12/19/2018	<0.01			0.0018 (J)		
12/20/2018			<0.01		<0.01	
1/17/2019					<0.01	
2/13/2019					<0.01	
8/27/2019	0.0019 (J)					
8/28/2019			<0.01	0.00092 (J)		
8/29/2019					<0.01	
10/16/2019				<0.01	<0.01	
12/3/2019			<0.01			
12/4/2019	0.0014 (J)					
3/4/2020				0.00078 (J)	<0.01	
3/5/2020	0.0014 (J)		0.00053 (J)			
8/19/2020	0.0021 (J)					
8/20/2020			0.001 (J)	0.00064 (J)	<0.01	
9/16/2020	0.0025 (J)		0.0014 (J)	<0.01		
9/17/2020					<0.01	
3/2/2021			<0.01	<0.01		
3/4/2021	0.002 (J)				<0.01	
9/23/2021			<0.01	<0.01		
9/28/2021	0.0021 (J)	<0.01			<0.01	
2/2/2022	0.0021 (J)	<0.01	<0.01	<0.01	<0.01	
2/4/2022						<0.01
8/23/2022				<0.01		
8/25/2022	<0.01	<0.01	<0.01		<0.01	<0.01
1/24/2023	<0.01					
1/25/2023		<0.01	<0.01		<0.01	
1/26/2023				<0.01		
1/30/2023						<0.01
8/22/2023	<0.01					
8/23/2023		<0.01				<0.01
8/24/2023			<0.01	<0.01	<0.01	
1/30/2024	<0.01	<0.01		<0.01		
2/1/2024			<0.01		<0.01	<0.01
8/27/2024		<0.01				
8/28/2024	<0.01			<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/29/2024			<0.01			<0.01
2/18/2025				<0.01		
2/19/2025	<0.01	<0.01	<0.01		<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.01		
6/6/2023		<0.01	
8/23/2023	<0.01		
8/24/2023		<0.01	<0.01
2/1/2024	<0.01	<0.01	<0.01
8/27/2024		<0.01	<0.01
8/29/2024	<0.01		
2/18/2025		<0.01	<0.01
2/19/2025	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	0.0016 (J)	0.0034 (J)	0.0013 (J)	<0.001		
9/1/2016					<0.001	<0.001
11/15/2016				<0.001	<0.001	
11/16/2016	0.0006 (J)	0.003 (J)	0.0012 (J)			<0.001
2/20/2017			0.0012 (J)	0.0009 (J)	<0.001	
2/21/2017	<0.005	0.0028 (J)				<0.001
6/12/2017	<0.005		0.0011 (J)	0.0006 (J)	0.0003 (J)	
6/13/2017		0.0025 (J)				
6/14/2017						<0.001
9/26/2017	<0.005	0.002 (J)	0.0016 (J)	0.0005 (J)	0.0003 (J)	<0.001
2/13/2018	<0.005	<0.005	<0.01 (O)	<0.001	<0.001	
2/14/2018						<0.001
6/26/2018	<0.005	0.0019 (J)	0.0009 (J)	0.00052 (J)	<0.001	<0.001
7/31/2018						<0.001
12/18/2018	<0.005	0.0032 (J)	0.00062 (J)	<0.001	<0.001	<0.001
8/27/2019	<0.005	0.0012 (J)	0.00068 (J)	0.00042 (J)	<0.001	<0.001
10/15/2019	<0.005	0.00097 (J)	0.00083 (J)	<0.001	<0.001	<0.001
3/3/2020	<0.005	0.0015 (J)	0.00043 (J)	<0.001	0.0011 (J)	<0.001
8/18/2020	<0.005	0.0014 (J)	0.00048 (J)	<0.001	0.00061 (J)	<0.001
9/15/2020	<0.005	0.001 (J)	0.0005 (J)	<0.001	<0.001	<0.001
3/1/2021	<0.005				<0.001	
3/2/2021		0.001 (J)	0.00053 (J)	<0.001		<0.001
9/21/2021			0.00071 (J)	<0.001		<0.001
9/22/2021	0.0015 (J)	<0.005			0.00078 (J)	
2/1/2022	0.00079 (J)	0.0011 (J)	0.0007 (J)	<0.001	<0.001	<0.001
8/23/2022	0.000767 (J)	0.000844 (J)	0.000553 (J)	<0.001	<0.001	<0.001
1/24/2023	0.00154	0.000829 (J)	0.000677 (J)	<0.001	<0.001	<0.001
8/22/2023	0.000707 (J)	0.000707 (J)	0.000474 (J)	0.000327 (J)	<0.001	
1/30/2024	0.0014	0.000962 (J)	0.000555 (J)	<0.001	<0.001	
8/27/2024	0.00105	0.000772 (J)	0.000396 (J)	<0.001	<0.001	
2/18/2025	0.000715 (J)	0.00111	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.001					
9/6/2016		0.0028 (J)				0.0006 (J)
9/8/2016			0.0073 (J)	0.0149	0.0122	
11/16/2016	<0.001					
11/17/2016		0.0072 (J)	0.0086 (J)			
11/18/2016				0.0131		
11/21/2016					0.0122	<0.04
2/21/2017	<0.001	0.0045 (J)	0.0079 (J)	0.0099 (J)		
2/22/2017					0.0136	0.0016 (J)
6/13/2017	<0.001	0.0036 (J)	0.0083 (J)	0.0094 (J)		
6/14/2017					0.0113	0.0015 (J)
9/26/2017	<0.001	0.0037 (J)				
9/27/2017			0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)
2/14/2018	<0.001	0.0135	<0.01	0.0112	<0.01	<0.04
6/26/2018	<0.001	0.0098 (J)	0.006 (J)			
6/27/2018				0.0093 (J)	0.0069 (J)	
6/28/2018						0.00078 (J)
7/31/2018	<0.001					
12/18/2018	<0.001	0.0057 (J)	0.0055 (J)		0.0067 (J)	0.0011 (J)
12/20/2018				0.0081 (J)		
8/27/2019	<0.001		0.0042 (J)			0.0014 (J)
8/28/2019				0.01	0.0061 (J)	
8/29/2019		0.0015 (J)				
10/15/2019	<0.001	0.0011 (J)	0.0043 (J)			
10/16/2019					0.0058	
10/17/2019				0.009 (J)		<0.04
12/4/2019				0.0086		0.0012 (J)
3/3/2020	<0.001					
3/4/2020		0.0012 (J)	0.0039 (J)	0.008	0.007	
3/5/2020						0.0011 (J)
8/18/2020	<0.001	0.00067 (J)				
8/19/2020			0.0039 (J)	0.0078	0.0065	0.0008 (J)
9/15/2020	<0.001	0.00076 (J)	0.0035 (J)		0.0064	
9/16/2020				0.008		0.0008 (J)
3/2/2021	<0.001	<0.001	0.003 (J)			
3/3/2021				0.0062	0.0095	0.0015 (J)
9/21/2021	<0.001					
9/22/2021		<0.001				
9/28/2021			0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)
2/1/2022	<0.001	0.00052 (J)				
2/2/2022			0.0027 (J)			0.0012 (J)
2/3/2022					0.0077	
2/4/2022				0.0076		
8/23/2022	<0.001	0.000308 (J)	0.00342			
8/24/2022					0.0066	0.00163
8/25/2022				0.0079		
1/24/2023	<0.001	<0.001				
1/25/2023				0.00711		
1/26/2023			0.0032		0.00823	0.00158
8/22/2023		<0.001				0.00183
8/24/2023			0.00343	0.00601	0.00724	
1/30/2024		<0.001				0.00179

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
1/31/2024			0.00254	0.00392	0.00874	
8/27/2024		<0.001		0.00566	0.00574	
8/28/2024						0.00149
8/29/2024			0.00319			
2/18/2025		<0.001				
2/19/2025			0.00193	0.00157	0.00698	0.00149

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	0.0025 (J)					
11/21/2016	0.001 (J)					
2/22/2017	<0.001					
6/14/2017	<0.001					
9/27/2017	<0.001					
2/14/2018	<0.001					
3/6/2018		<0.001	0.0162	<0.001		
5/1/2018		<0.001	0.015	<0.001		
6/27/2018	<0.001			0.0076 (J)		
6/28/2018			0.01			
7/31/2018			0.0098 (J)			
8/1/2018				0.004 (J)		
8/10/2018					0.0043 (J)	
8/23/2018			0.0093 (J)	0.0016 (J)	0.0026 (J)	
9/19/2018			0.0084 (J)	0.0018 (J)	0.0028 (J)	
10/29/2018			0.0064 (J)	0.0014 (J)	0.0015 (J)	
11/28/2018			0.0071 (J)	0.0016 (J)	0.0012 (J)	
12/19/2018	<0.001			0.0014 (J)		
12/20/2018			0.069		<0.001	
1/17/2019					<0.001	
2/13/2019					<0.001	
8/27/2019	<0.001					
8/28/2019			0.011	0.00037 (J)		
8/29/2019					0.00063 (J)	
10/16/2019				0.00032 (J)	<0.001	
10/17/2019	<0.001		0.0096 (J)			
12/3/2019			0.0076			
12/4/2019	<0.001					
3/4/2020				0.0011 (J)	<0.001	
3/5/2020	<0.001		0.0091			
8/19/2020	<0.001					
8/20/2020			0.022	0.00043 (J)	<0.001	
9/16/2020	<0.001		0.0049 (J)	0.00053 (J)		
9/17/2020					0.00046 (J)	
3/2/2021			0.0057	0.0005 (J)		
3/4/2021	<0.001				<0.001	
9/23/2021			0.0049 (J)	<0.001		
9/28/2021	<0.001	<0.001			<0.001	
2/2/2022	<0.001	<0.001	0.0054	<0.001	<0.001	
2/4/2022						0.019
8/23/2022				<0.001		
8/25/2022	<0.001	<0.001	0.00357		<0.001	0.0232
1/24/2023	<0.001					
1/25/2023		<0.001	0.00258		<0.001	
1/26/2023				0.000376 (J)		
1/30/2023						0.028
8/22/2023	<0.001					
8/23/2023		<0.001				0.0309
8/24/2023			0.00221	<0.001	0.000317 (J)	
1/30/2024	<0.001	0.000408 (J)		<0.001		
2/1/2024			0.00181		0.00042 (J)	0.0299
8/27/2024		<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/28/2024	<0.001			<0.001	<0.001	
8/29/2024			0.00203			0.0335
2/18/2025				<0.001		
2/19/2025	<0.001	<0.001	0.000823 (J)		<0.001	0.0402

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.000825 (J)		
6/6/2023		0.00258	
8/23/2023	0.00106		
8/24/2023		0.00059 (J)	0.00105
2/1/2024	0.000852 (J)	0.000829 (J)	0.000519 (J)
8/27/2024		<0.001	<0.001
8/29/2024	0.000526 (J)		
2/18/2025		<0.001	<0.001
2/19/2025	0.000454 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	1	0.62	0.566	0.428		
9/1/2016					0.603	1.18
11/15/2016				0.645	0.412	
11/16/2016	0.824 (U)	0.43 (U)	0.493 (U)			0.799 (U)
2/20/2017			0.534 (U)	1.36	0.633 (U)	
2/21/2017	1.01	0.96				1.75
6/12/2017	0.532 (U)		0.254 (U)	0.566 (U)	0.112 (U)	
6/13/2017		0.645 (U)				
6/14/2017						2.66
9/26/2017	0.845 (U)	0.299 (U)	0.62 (U)	0.762 (U)	0.167 (U)	0.841 (U)
2/13/2018	0.176 (U)	1.01 (U)	0.0914 (U)	0.349 (U)	0.347 (U)	
2/14/2018						1.13
6/26/2018	1.02 (U)	1.26	1.11 (U)	0.614 (U)	0.903 (U)	1.42
12/18/2018	0.487 (U)	0.44 (U)	0.42 (U)	0.445 (U)	0.353 (U)	0.855 (U)
8/27/2019	1.11	1.47	1.19	1.44	0.65 (U)	1.31
10/15/2019	1.02 (U)	0.807 (U)	0.714 (U)	0.467 (U)	0.402 (U)	1.13 (U)
3/3/2020	1.18 (U)	0.818 (U)	0.996 (U)	1.5	0.397 (U)	1.29 (U)
8/18/2020	0.0861 (U)	1.22 (U)	0.53 (U)	0.581 (U)	0.453 (U)	0.988 (U)
9/15/2020	0.0583 (U)	0.579 (U)	0.215 (U)	0.55 (U)	0.474 (U)	0.762 (U)
3/1/2021	0.127 (U)				0.215 (U)	
3/2/2021		0.342 (U)	0.409 (U)	0.362 (U)		0.901
9/21/2021			0.182 (U)	0.86 (U)		1.33
9/22/2021	0.349 (U)	1.33 (U)			0.943 (U)	
2/1/2022	0.233 (U)	0.251 (U)	1.23	0.23 (U)	0.349 (U)	0.833 (U)
8/23/2022	1.7 (U)	0.531 (U)	2.3	0.735 (U)	0.203 (U)	0.558 (U)
1/24/2023	2.05 (U)	1.35 (U)	0.811 (U)	0.402 (U)	1.55 (U)	1.49 (U)
8/22/2023	0.857 (U)	0.592 (U)	1.36	1.31 (U)	1.89 (U)	
1/30/2024	1.25	2.54	1.48 (U)	0 (U)	1.29	
8/27/2024	0.864 (U)	1.4 (U)	3.62	0.236 (U)	1.64	
2/18/2025	1.02 (U)	0.747 (U)	0.475 (U)	1.3 (U)	2.33	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	0.643					
9/6/2016		0.585 (U)				1.01 (U)
9/8/2016			0.471	1.74	0.54	
11/16/2016	0.863 (U)					
11/17/2016		0.804 (U)	1.2 (U)			
11/18/2016				0.571 (U)		
11/21/2016					1.59	0.201 (U)
2/21/2017	0.318	0.595	1.31	1.28		
2/22/2017					1.64	0.57 (U)
6/13/2017	0.163 (U)	0.618 (U)	0.738 (U)	0.521 (U)		
6/14/2017					1.32	0.726 (U)
9/26/2017	0.56 (U)	1.26 (U)				
9/27/2017			0.583 (U)	0.595 (U)	1.7	0.884 (U)
2/14/2018	0.537 (U)	1.2 (U)	1.41	1.18 (U)	1.89	1.14 (U)
6/26/2018	1.31	1.34 (U)	0.968 (U)			
6/27/2018				1.3 (U)	1.66	
6/28/2018						1.4
12/18/2018	1.31	1.13 (U)	1.13 (U)		0.759 (U)	0.661 (U)
12/20/2018				0.527 (U)		
8/27/2019	1.32		0.91 (U)			1.35
8/28/2019				0.643 (U)	1.76	
8/29/2019		1.45 (U)				
10/15/2019	1.05 (U)	1.69	1.06 (U)			
10/16/2019					1.69 (U)	
10/17/2019				1.07 (U)		1.25 (U)
3/3/2020	1.68					
3/4/2020		1.45	1.34	1.18	1.23	
3/5/2020						1.35
8/18/2020	0.969 (U)	0.784 (U)				
8/19/2020			0.467 (U)	0.684 (U)	0.876 (U)	1 (U)
9/15/2020	0.359 (U)	1.04 (U)	0.205 (U)		1.23 (U)	
9/16/2020				0.175 (U)		0.43 (U)
3/2/2021	0.925	1.12	0.161 (U)			
3/3/2021				0.829 (U)	1.31 (U)	0.415 (U)
9/21/2021	0.468 (U)					
9/22/2021		1.4				
9/28/2021			4.44	3.58	1.49	0.749 (U)
2/1/2022	0.659 (U)	1.15				
2/2/2022			0.64 (U)			1.21 (U)
2/3/2022					0.798 (U)	
2/4/2022				0.335 (U)		
8/23/2022	1.69 (U)	1.59 (U)	1.9 (U)			
8/24/2022					1.97	3.26
8/25/2022				1.79 (U)		
1/24/2023	3.07	5.62				
1/25/2023				1.53 (U)		
1/26/2023			3.24		2.27 (U)	2.73 (U)
8/22/2023		2.16				2.71
8/24/2023			1.21 (U)	2.23	3.02	
1/30/2024		0.605 (U)				4.11
1/31/2024			3.78	1.49 (U)	3.01	
8/27/2024		2.43		2.41	2.39	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/28/2024						3.82
8/29/2024			6.24			
2/18/2025		2.42 (U)				
2/19/2025			2.94	1.44 (U)	2.67	1.09 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	0.816					
11/21/2016	0.0569 (U)					
2/22/2017	1.07 (U)					
6/14/2017	0.459 (U)					
9/27/2017	0.807 (U)					
2/14/2018	1.67					
3/6/2018		0.577 (U)	1.25 (U)	1.75		
5/1/2018		0.27 (U)	0.423 (U)	2.09		
6/27/2018	1.34			0.878 (U)		
6/28/2018			0.283 (U)			
7/31/2018			0.243 (U)			
8/1/2018				0.638 (U)		
8/10/2018					1.91	
8/23/2018			1.1 (U)	1.14 (U)	1.86	
9/19/2018			0.369 (U)	1.45	1.64	
10/29/2018			0.401 (U)	1.09 (U)	1.36 (U)	
11/28/2018			0.901 (U)	1.67	1.07 (U)	
12/19/2018	1.21 (U)			1.3		
12/20/2018			0.657 (U)		0.892 (U)	
1/17/2019					0.411	
2/13/2019					1.68	
8/27/2019	0.86 (U)					
8/28/2019			0.528 (U)	0.804 (U)		
8/29/2019					1.44	
10/16/2019				1.28 (U)	2.13	
10/17/2019	1.2 (U)		0.977 (U)			
3/4/2020				0.862 (U)	2.3	
3/5/2020	0.483 (U)		0.921 (U)			
8/19/2020	0.482 (U)					
8/20/2020			0.501 (U)	1.64	2.97	
9/16/2020	0.195 (U)		0.254 (U)	0.51 (U)		
9/17/2020					2.04	
3/2/2021			0.107 (U)	0.571 (U)		
3/4/2021	0.32 (U)				2.04	
9/23/2021			0.619 (U)	0.527 (U)		
9/28/2021	0.947 (U)	0.526 (U)			3.28	
2/2/2022	0.0265 (U)	0.244 (U)	0.219 (U)	0.145 (U)	2.33	
2/4/2022						0.768
8/23/2022				3.74		
8/25/2022	1.32 (U)	1.6 (U)	1.65 (U)		4.97	1.52 (U)
1/24/2023	2.25					
1/25/2023		2.49 (U)	1.29 (U)		7.94	
1/26/2023				3.28		
1/30/2023						6.03
8/22/2023	2.33					
8/23/2023		0.477 (U)				2.31
8/24/2023			0.607 (U)	2.39	6.36	
1/30/2024	0.572 (U)	2.87		2.63		
2/1/2024			1.22 (U)		4.51	1.52 (U)
8/27/2024		2.84				
8/28/2024	0.737 (U)			1.32 (U)	14.7	
8/29/2024			1.71			4.48

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
2/18/2025				2.18 (U)		
2/19/2025	2.61	0.947 (U)	2.94		4.91	1.73

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	4.16		
6/6/2023		7.8	
8/23/2023	1.62		
8/24/2023		0.811 (U)	3.11
2/1/2024	2.16	0.912 (U)	2.19
8/27/2024		0.997 (U)	2.81
8/29/2024	5.43		
2/18/2025		0.399 (U)	2.59
2/19/2025	1.79 (U)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	0.11 (J)	0.05 (J)	0.07 (J)	0.19 (J)		
9/1/2016					0.06 (J)	0.2 (J)
11/15/2016				0.08 (J)	0.04 (J)	
11/16/2016	0.05 (J)	0.04 (J)	0.03 (J)			0.14 (J)
2/20/2017			0.06 (J)	0.08 (J)	0.04 (J)	
2/21/2017	0.14 (J)	0.05 (J)				0.16 (J)
6/12/2017	0.16 (J)		0.008 (J)	0.07 (J)	0.06 (J)	
6/13/2017		0.04 (J)				
6/14/2017						0.09 (J)
9/26/2017	0.14 (J)	<0.1	<0.1	0.04 (J)	<0.1	0.1 (J)
2/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	
2/14/2018						<0.3
6/26/2018	0.085 (J)	0.048 (J)	0.045 (J)	0.072 (J)	0.041 (J)	0.079 (J)
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1	<0.3
3/19/2019	0.066 (J)	0.037 (J)	<0.1	0.06 (J)	0.03 (J)	<0.3
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3
10/15/2019	<0.1	<0.1	<0.1	0.045 (J)	<0.1	0.047 (J)
3/3/2020	0.066 (J)	0.05 (J)	<0.1	0.057 (J)	0.09 (J)	0.056 (J)
8/18/2020	<0.1	<0.1	<0.1	<0.1	<0.1	0.052 (J)
9/15/2020	<0.1	<0.1	<0.1	0.051 (J)	<0.1	0.062 (J)
3/1/2021	<0.1				<0.1	
3/2/2021		<0.1	<0.1	<0.1		0.061 (J)
9/21/2021			<0.1	0.056 (J)		0.071 (J)
9/22/2021	<0.1	<0.1			<0.1	
2/1/2022	<0.1	<0.1	<0.1	<0.1	<0.1	0.055 (J)
8/23/2022	<0.1	<0.1	<0.1	<0.1	<0.1	0.151
1/24/2023	<0.1	<0.1	0.149	0.158	0.12	0.214
8/22/2023	0.267	0.229	0.289	0.277	0.0787 (J)	
1/30/2024	<0.1	0.184	0.232	0.233	0.0341 (J)	
8/27/2024	0.0342 (J)	0.0426 (J)	0.0365 (J)	0.0516 (J)	0.0334 (J)	
2/18/2025	0.0566 (J)	0.0709 (J)	0.0553 (J)	0.0749 (J)	0.0527 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	0.05 (J)					
9/6/2016		0.42				0.43
9/8/2016			0.14 (J)	0.31	0.2 (J)	
11/16/2016	0.03 (J)					
11/17/2016		0.15 (J)	0.27 (J)			
11/18/2016				0.19 (J)		
11/21/2016					0.37	0.24 (J)
2/21/2017	0.04 (J)	0.1 (J)	0.6	0.35		
2/22/2017					0.37	0.2 (J)
6/13/2017	0.008 (J)	0.07 (J)	0.19 (J)	0.19 (J)		
6/14/2017					0.38	0.15 (J)
9/26/2017	<0.1	<0.1				
9/27/2017			0.5	0.4	0.4	0.41
2/14/2018	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
6/26/2018	0.042 (J)	0.053 (J)	0.15 (J)			
6/27/2018				0.26 (J)	0.085 (J)	
6/28/2018						0.93
12/18/2018	<0.1	<0.1	0.29 (J)		0.26 (J)	0.54
12/20/2018				0.26 (J)		
3/19/2019	<0.1	<0.1		0.2 (J)		
3/20/2019			0.18 (J)		0.091 (J)	0.31
8/27/2019	<0.1		0.15 (J)			0.12 (J)
8/28/2019				0.074 (J)	0.055 (J)	
8/29/2019		0.084 (J)				
10/15/2019	<0.1	<0.1	0.16 (J)			
10/16/2019					0.11 (J)	
12/4/2019				0.18 (J)		0.26 (J)
3/3/2020	<0.1					
3/4/2020		<0.1	0.07 (J)	<0.3	<0.3	
3/5/2020						0.051 (J)
8/18/2020	<0.1	<0.1				
8/19/2020			0.17	0.19	0.12	0.14
9/15/2020	<0.1	<0.1	0.15		0.057 (J)	
9/16/2020				0.15		0.13
3/2/2021	<0.1	<0.1	0.15			
3/3/2021				0.24	0.13	0.13
9/21/2021	<0.1					
9/22/2021		0.069 (J)				
9/28/2021			0.15	0.16	0.081 (J)	0.11
2/1/2022	<0.1	<0.1				
2/2/2022			0.15			0.1
2/3/2022					0.11	
2/4/2022				0.14		
8/23/2022	0.129	0.157	0.186			
8/24/2022					0.103	0.318
8/25/2022				0.234		
1/24/2023	0.0926 (J)	0.231				
1/25/2023				0.152		
1/26/2023			0.202		0.0935 (J)	0.167
8/22/2023		0.114				0.116
8/24/2023			0.25	0.302	0.0849 (J)	
1/30/2024		0.275				0.169

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
1/31/2024			0.221	0.222	0.0968 (J)	
5/8/2024				0.342		
8/27/2024		0.204		0.382	0.0849 (J)	
8/28/2024						0.336 (J)
8/29/2024			0.248			
2/18/2025		0.0974 (J)				
2/19/2025			0.281	0.0997 (J)	0.129	0.194

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	0.15 (J)					
11/21/2016	0.04 (J)					
2/22/2017	0.08 (J)					
6/14/2017	0.09 (J)					
9/27/2017	<0.1					
2/14/2018	<0.1					
3/6/2018		<0.3	0.94	1.1		
5/1/2018		<0.3	<0.1	0.89		
6/27/2018	<0.1			0.27 (J)		
6/28/2018			0.69			
7/31/2018			<0.1			
8/1/2018				0.48		
8/10/2018					1.6 (O)	
8/23/2018			<0.1	0.34	0.32	
9/19/2018			<0.1	0.23 (J)	0.22 (J)	
10/29/2018			<0.1	<0.2	0.14 (J)	
11/28/2018			<0.1	0.063 (J)	0.24 (J)	
12/19/2018	0.23 (J)			0.28 (J)		
12/20/2018			0.12 (J)		0.3	
1/17/2019					0.23 (J)	
2/13/2019					<0.3	
3/19/2019				<0.2		
3/20/2019	<0.1		0.066 (J)		0.14 (J)	
8/27/2019	<0.1					
8/28/2019			<0.1	<0.2		
8/29/2019					0.087 (J)	
10/16/2019				0.076 (J)	0.22 (J)	
12/3/2019			0.19 (J)			
12/4/2019	0.11 (J)					
3/4/2020				<0.2	0.1 (J)	
3/5/2020	<0.1		<0.1			
8/19/2020	<0.1					
8/20/2020			<0.1	<0.2	0.23	
9/16/2020	<0.1		0.052 (J)	<0.2		
9/17/2020					0.074 (J)	
3/2/2021			0.067 (J)	<0.2		
3/4/2021	<0.1				0.28	
9/23/2021			0.06 (J)	<0.2		
9/28/2021	<0.1	0.08 (J)			0.12	
2/2/2022	<0.1	0.065 (J)	<0.1	<0.2	0.098 (J)	
2/4/2022						0.14
8/23/2022				<0.2		
8/25/2022	0.138	0.184	0.166		0.157	0.235
1/24/2023	0.082 (J)					
1/25/2023		0.13	0.163		0.169	
1/26/2023				0.117		
1/30/2023						0.23
8/22/2023	0.0477 (J)					
8/23/2023		0.195				0.252
8/24/2023			0.185	0.243	0.188 (J)	
1/30/2024	0.207	0.242		0.11		
2/1/2024			0.126		0.215	0.289

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
5/8/2024	0.0853 (J)					
8/27/2024		0.193				
8/28/2024	0.0511 (J)			<0.2	0.0748 (J)	
8/29/2024			0.078 (J)			0.139
2/18/2025				0.189		
2/19/2025	0.0774 (J)	0.127	0.142		0.152	0.194

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.166		
6/6/2023		0.0891 (J)	
7/5/2023			0.157
8/23/2023	0.218		
8/24/2023		0.157	0.14
2/1/2024	0.211	0.232	0.0996 (J)
8/27/2024		0.159	0.155
8/29/2024	0.126		
2/18/2025		0.0877 (J)	0.0816 (J)
2/19/2025	0.135		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	<0.002	<0.002	<0.002	<0.002		
9/1/2016					0.0001 (J)	<0.002
11/15/2016				<0.002	<0.002	
11/16/2016	<0.002	<0.002	<0.002			<0.002
2/20/2017			<0.002	0.0002 (J)	<0.002	
2/21/2017	<0.002	<0.002				<0.002
6/12/2017	8E-05 (J)		<0.002	0.0001 (J)	8E-05 (J)	
6/13/2017		<0.002				
6/14/2017						<0.002
9/26/2017	7E-05 (J)	7E-05 (J)	<0.002	0.0001 (J)	<0.002	<0.002
2/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002	
2/14/2018						<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	5.8E-05 (J)	<0.002	0.00036 (J)	<0.002	<0.002
10/15/2019	<0.002	<0.002	<0.002	7.9E-05 (J)	<0.002	<0.002
3/3/2020	<0.002	<0.002	<0.002	7.9E-05 (J)	7.3E-05 (J)	<0.002
8/18/2020	<0.002	<0.002	<0.002	0.0001 (J)	<0.002	<0.002
9/15/2020	<0.002	<0.002	0.0013 (J)	4.3E-05 (J)	<0.002	<0.002
3/1/2021	<0.002				<0.002	
3/2/2021		<0.002	3.7E-05 (J)	<0.002		<0.002
9/21/2021			<0.002	<0.002		<0.002
9/22/2021	<0.002	<0.002			<0.002	
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/22/2023	<0.002	<0.002	<0.002	<0.002	<0.002	
1/30/2024	<0.002	<0.002	<0.002	<0.002	<0.002	
8/27/2024	<0.002	<0.002	<0.002	<0.002	<0.002	
2/18/2025	<0.002	<0.002	<0.002	<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.002					
9/6/2016		<0.002				<0.002
9/8/2016			<0.002	<0.002	0.0004 (J)	
11/16/2016	<0.002					
11/17/2016		<0.002	<0.002			
11/18/2016				<0.002		
11/21/2016					0.0006 (J)	<0.002
2/21/2017	<0.002	<0.002	<0.002	<0.002		
2/22/2017					0.0005 (J)	<0.002
6/13/2017	<0.002	<0.002	<0.002	<0.002		
6/14/2017					0.0004 (J)	<0.002
9/26/2017	<0.002	<0.002				
9/27/2017			<0.002	<0.002	0.0006 (J)	<0.002
2/14/2018	<0.002	<0.002	<0.002	<0.002	<0.005 (O)	<0.002
6/26/2018	<0.002	<0.002	<0.002			
6/27/2018				<0.002	0.00032 (J)	
6/28/2018						<0.002
12/18/2018	<0.002	<0.002	<0.002		0.00038 (J)	<0.002
12/20/2018				<0.002		
8/27/2019	<0.002		0.00011 (J)			<0.002
8/28/2019				<0.002	0.00027 (J)	
8/29/2019		7E-05 (J)				
10/15/2019	<0.002	<0.002	<0.002			
10/16/2019					0.00027 (J)	
12/4/2019				6.3E-05 (J)		<0.002
3/3/2020	<0.002					
3/4/2020		<0.002	<0.002	<0.002	0.0003 (J)	
3/5/2020						<0.002
8/18/2020	<0.002	<0.002				
8/19/2020			<0.002	<0.002	0.00025 (J)	<0.002
9/15/2020	<0.002	<0.002	<0.002		0.00029 (J)	
9/16/2020				<0.002		0.00011 (J)
3/2/2021	<0.002	<0.002	<0.002			
3/3/2021				<0.002	0.00033 (J)	<0.002
9/21/2021	<0.002					
9/22/2021		<0.002				
9/28/2021			<0.002	<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002				
2/2/2022			<0.002			<0.002
2/3/2022					<0.002	
2/4/2022				<0.002		
8/23/2022	<0.002	<0.002	<0.002			
8/24/2022					<0.002	<0.002
8/25/2022				<0.002		
1/24/2023	<0.002	<0.002				
1/25/2023				<0.002		
1/26/2023			<0.002		<0.002	<0.002
8/22/2023		<0.002				<0.002
8/24/2023			<0.002	<0.002	<0.002	
1/30/2024		<0.002				<0.002
1/31/2024			<0.002	<0.002	<0.002	
8/27/2024		<0.002		<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/28/2024						<0.002
8/29/2024			<0.002			
2/18/2025		<0.002				
2/19/2025			<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.002					
11/21/2016	<0.002					
2/22/2017	<0.002					
6/14/2017	<0.002					
9/27/2017	<0.002					
2/14/2018	<0.002					
3/6/2018		<0.002	<0.002	<0.002		
5/1/2018		<0.002	<0.002	<0.002		
6/27/2018	<0.002			<0.002		
6/28/2018			<0.002			
7/31/2018			<0.002			
8/1/2018				<0.002		
8/10/2018					<0.002	
8/23/2018			<0.002	<0.002	<0.002	
9/19/2018			<0.002	<0.002	<0.002	
10/29/2018			<0.002	<0.002	<0.002	
11/28/2018			<0.002	<0.002	<0.002	
12/19/2018	<0.002			<0.002		
12/20/2018			<0.002		<0.002	
1/17/2019					<0.002	
2/13/2019					<0.002	
8/27/2019	<0.002					
8/28/2019			<0.002	<0.002		
8/29/2019					<0.002	
10/16/2019				<0.002	<0.002	
12/3/2019			<0.002			
12/4/2019	<0.002					
3/4/2020				0.00012 (J)	<0.002	
3/5/2020	<0.002		0.00026 (J)			
8/19/2020	<0.002					
8/20/2020			0.00021 (J)	4.8E-05 (J)	<0.002	
9/16/2020	<0.002		5.3E-05 (J)	6.6E-05 (J)		
9/17/2020					<0.002	
3/2/2021			<0.002	<0.002		
3/4/2021	<0.002				4.2E-05 (J)	
9/23/2021			<0.002	<0.002		
9/28/2021	<0.002	<0.002			<0.002	
2/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002	
2/4/2022						<0.002
8/23/2022				<0.002		
8/25/2022	<0.002	<0.002	<0.002		<0.002	<0.002
1/24/2023	<0.002					
1/25/2023		<0.002	0.000595 (J)		<0.002	
1/26/2023				<0.002		
1/30/2023						<0.002
8/22/2023	<0.002					
8/23/2023		<0.002				<0.002
8/24/2023			<0.002	<0.002	<0.002	
1/30/2024	<0.002	<0.002		<0.002		
2/1/2024			<0.002		<0.002	<0.002
8/27/2024		<0.002				
8/28/2024	<0.002			<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/29/2024			<0.002			<0.002
2/18/2025				<0.002		
2/19/2025	<0.002	<0.002	<0.002		<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.002		
6/6/2023		<0.002	
8/23/2023	<0.002		
8/24/2023		<0.002	<0.002
2/1/2024	0.000504 (J)	<0.002	<0.002
8/27/2024		<0.002	<0.002
8/29/2024	<0.002		
2/18/2025		<0.002	<0.002
2/19/2025	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	0.0268 (J)	<0.01	<0.01	<0.01		
9/1/2016					0.003 (J)	0.0061 (J)
11/15/2016				<0.01	0.0033 (J)	
11/16/2016	0.0201 (J)	<0.01	0.0033 (J)			0.0054 (J)
2/20/2017			<0.01	<0.01	0.0025 (J)	
2/21/2017	0.0128 (J)	<0.01				0.0058 (J)
6/12/2017	0.0245 (J)		0.0019 (J)	<0.01	0.0027 (J)	
6/13/2017		<0.01				
6/14/2017						0.0054 (J)
9/26/2017	0.0549	<0.01	0.0022 (J)	<0.01	0.0023 (J)	0.0037 (J)
2/13/2018	0.0595	<0.01	0.0041 (J)	<0.01	0.0027 (J)	
2/14/2018						0.0038 (J)
6/26/2018	0.089	<0.01	0.0025 (J)	<0.01	0.0029 (J)	0.0045 (J)
12/18/2018	0.024 (J)	<0.01	0.0032 (J)	<0.01	0.0026 (J)	0.0038 (J)
8/27/2019	0.035 (J)	<0.01	0.0019 (J)	<0.01	0.0028 (J)	0.0039 (J)
10/15/2019	0.028 (J)	<0.01	0.002 (J)	<0.01	0.0024 (J)	0.0037 (J)
3/3/2020	0.055	<0.01	0.0013 (J)	<0.01	0.0026 (J)	0.0033 (J)
8/18/2020	0.054	<0.01	0.00095 (J)	<0.01	0.0026 (J)	0.0039 (J)
9/15/2020	0.033	<0.01	0.001 (J)	<0.01	0.0027 (J)	0.0037 (J)
3/1/2021	0.027 (J)				0.0036 (J)	
3/2/2021		<0.01	0.00081 (J)	<0.01		0.0045 (J)
9/21/2021			0.0012 (J)	<0.01		0.0037 (J)
9/22/2021	0.021 (J)	<0.01			0.0035 (J)	
2/1/2022	0.023 (J)	<0.01	0.0011 (J)	<0.01	0.0029 (J)	0.0037 (J)
8/23/2022	0.0262	<0.01	<0.01	<0.01	0.00314 (J)	0.00451 (J)
1/24/2023	0.00919 (J)	<0.01	<0.01	<0.01	0.00341 (J)	0.00529 (J)
8/22/2023	0.0209	<0.01	<0.01	<0.01	<0.01	
1/30/2024	0.00407 (J)	<0.01	<0.01	<0.01	0.00317 (J)	
8/27/2024	0.00584 (J)	<0.01	0.00337 (J)	<0.01	0.00322 (J)	
2/18/2025	0.00603 (J)	<0.01	<0.01	<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.01					
9/6/2016		0.0028 (J)				0.0117 (J)
9/8/2016			<0.01	0.0021 (J)	0.004 (J)	
11/16/2016	<0.01					
11/17/2016		0.0063 (J)	<0.01			
11/18/2016				<0.01		
11/21/2016					0.0039 (J)	0.0108 (J)
2/21/2017	<0.01	0.0052 (J)	<0.01	<0.01		
2/22/2017					0.0043 (J)	0.0103 (J)
6/13/2017	<0.01	0.0061 (J)	<0.01	0.0017 (J)		
6/14/2017					0.0036 (J)	0.0101 (J)
9/26/2017	<0.01	0.0087 (J)				
9/27/2017			<0.01	0.0016 (J)	0.0038 (J)	0.0116 (J)
2/14/2018	<0.01	0.0104 (J)	<0.01	0.0018 (J)	0.0034 (J)	0.0115 (J)
6/26/2018	<0.01	0.0095 (J)	<0.01			
6/27/2018				0.0016 (J)	0.0034 (J)	
6/28/2018						0.013 (J)
12/18/2018	<0.01	0.0091 (J)	<0.01		0.0032 (J)	0.014 (J)
12/20/2018				0.0015 (J)		
8/27/2019	<0.01		<0.01			0.016 (J)
8/28/2019				0.0016 (J)	0.0033 (J)	
8/29/2019		0.007 (J)				
10/15/2019	<0.01	0.0069 (J)	<0.01			
10/16/2019					0.0029 (J)	
12/4/2019				0.0014 (J)		0.013
3/3/2020	<0.01					
3/4/2020		0.0074 (J)	<0.01	0.0014 (J)	0.0029 (J)	
3/5/2020						0.016 (J)
8/18/2020	<0.01	0.0099 (J)				
8/19/2020			<0.01	0.0014 (J)	0.0029 (J)	0.018 (J)
9/15/2020	<0.01	0.011 (J)	<0.01		0.003 (J)	
9/16/2020				0.0014 (J)		0.016 (J)
3/2/2021	<0.01	0.0093 (J)	<0.01			
3/3/2021				0.0012 (J)	0.0032 (J)	0.014 (J)
9/21/2021	<0.01					
9/22/2021		0.0074 (J)				
9/28/2021			<0.01	0.0011 (J)	0.0029 (J)	0.023 (J)
2/1/2022	<0.01	0.008 (J)				
2/2/2022			<0.01			0.021 (J)
2/3/2022					0.0026 (J)	
2/4/2022				0.001 (J)		
8/23/2022	<0.01	0.00792 (J)	<0.01			
8/24/2022					0.00304 (J)	0.0238
8/25/2022				<0.01		
1/24/2023	<0.01	0.00749 (J)				
1/25/2023				<0.01		
1/26/2023			<0.01		0.00331 (J)	0.0279
8/22/2023		0.00596 (J)				0.0253
8/24/2023			<0.01	<0.01	0.00349 (J)	
1/30/2024		0.00729 (J)				0.0305
1/31/2024			<0.01	<0.01	0.00337 (J)	
8/27/2024		0.00687 (J)		<0.01	0.00305 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/28/2024						0.0295
8/29/2024			<0.01			
2/18/2025		0.00934 (J)				
2/19/2025			<0.01	<0.01	<0.01	0.0301

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.05					
11/21/2016	<0.05					
2/22/2017	0.0023 (J)					
6/14/2017	0.0022 (J)					
9/27/2017	0.0021 (J)					
2/14/2018	0.0023 (J)					
3/6/2018		0.0046 (J)	0.0031 (J)	0.0399 (J)		
5/1/2018		0.0049 (J)	0.0038 (J)	0.044 (J)		
6/27/2018	0.0023 (J)			0.044 (J)		
6/28/2018			0.0028 (J)			
7/31/2018			<0.25 (O)			
8/1/2018				0.039 (J)		
8/10/2018					0.0087 (J)	
8/23/2018			0.0033 (J)	0.044 (J)	0.0089 (J)	
9/19/2018			0.0033 (J)	0.043 (J)	0.005 (J)	
10/29/2018			0.003 (J)	0.039 (J)	0.0048 (J)	
11/28/2018			0.0035 (J)	0.044 (J)	0.0052 (J)	
12/19/2018	0.0018 (J)			0.043 (J)		
12/20/2018			0.003 (J)		0.0042 (J)	
1/17/2019					0.0039 (J)	
2/13/2019					<0.05	
8/27/2019	0.0022 (J)					
8/28/2019			0.0034 (J)	0.044 (J)		
8/29/2019					0.0052 (J)	
10/16/2019				0.038	0.0023 (J)	
12/3/2019			0.0033 (J)			
12/4/2019	0.0022 (J)					
3/4/2020				0.042	0.002 (J)	
3/5/2020	0.0022 (J)		0.003 (J)			
8/19/2020	0.002 (J)					
8/20/2020			0.0034 (J)	0.044	0.0022 (J)	
9/16/2020	0.0022 (J)		0.0036 (J)	0.039		
9/17/2020					0.0058 (J)	
3/2/2021			0.0043 (J)	0.044		
3/4/2021	0.002 (J)				0.003 (J)	
9/23/2021			0.0023 (J)	0.042		
9/28/2021	0.0021 (J)	0.0048 (J)			0.0035 (J)	
2/2/2022	0.0035 (J)	0.0058 (J)	0.0022 (J)	0.04	0.0041 (J)	
2/4/2022						0.007 (J)
8/23/2022				0.0474		
8/25/2022	0.0043 (J)	0.00652 (J)	<0.01		0.0162	0.00509 (J)
1/24/2023	0.007 (J)					
1/25/2023		0.00728 (J)	0.00333 (J)		0.0186	
1/26/2023				0.0506		
1/30/2023						0.0066 (J)
8/22/2023	0.00392 (J)					
8/23/2023		0.0056 (J)				0.00516 (J)
8/24/2023			<0.01	0.0532	0.0131	
1/30/2024	0.00591 (J)	0.00537 (J)		0.0484		
2/1/2024			<0.01		0.0122	0.00557 (J)
8/27/2024		0.00629 (J)				
8/28/2024	0.00514 (J)			0.0436	0.00997 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/29/2024			<0.01			0.00651 (J)
2/18/2025				0.0456		
2/19/2025	0.00514 (J)	0.00581 (J)	<0.01		0.0114	0.00669 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.00899 (J)		
6/6/2023		0.00704 (J)	
8/23/2023	0.00399 (J)		
8/24/2023		0.00711 (J)	0.00579 (J)
2/1/2024	0.00564 (J)	0.00702 (J)	0.00411 (J)
8/27/2024		0.00825 (J)	0.00433 (J)
8/29/2024	0.00633 (J)		
2/18/2025		0.00692 (J)	0.00355 (J)
2/19/2025	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002		
9/1/2016					<0.0002	<0.0002
11/15/2016				<0.0002	<0.0002	
11/16/2016	<0.0002	<0.0002	<0.0002			<0.0002
2/20/2017			<0.0002	8E-05 (J)	<0.0002	
2/21/2017	<0.0002	<0.0002				<0.0002
6/12/2017	4E-05 (J)		<0.0002	<0.0002	<0.0002	
6/13/2017		<0.0002				
6/14/2017						6E-05 (J)
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/13/2018	0.00021	0.00019 (J)	<0.0002	0.00013 (J)	<0.0002	
2/14/2018						5.2E-05 (J)
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2021	<0.0002				<0.0002	
3/2/2021		<0.0002	<0.0002	<0.0002		<0.0002
9/21/2021			0.0001 (J)	0.0001 (J)		0.0001 (J)
9/22/2021	0.0001 (J)	0.0001 (J)			0.0001 (J)	
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/22/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
1/30/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/27/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/18/2025	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.0002					
9/6/2016		<0.0002				<0.0002
9/8/2016			<0.0002	<0.0002	<0.0002	
11/16/2016	<0.0002					
11/17/2016		<0.0002	<0.0002			
11/18/2016				<0.0002		
11/21/2016					<0.0002	<0.0002
2/21/2017	<0.0002	<0.0002	<0.0002	<0.0002		
2/22/2017					<0.0002	<0.0002
6/13/2017	<0.0002	<0.0002	<0.0002	5E-05 (J)		
6/14/2017					7E-05 (J)	7E-05 (J)
9/26/2017	<0.0002	<0.0002				
9/27/2017			4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)
2/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/26/2018	<0.0002	<0.0002	<0.0002			
6/27/2018				<0.0002	<0.0002	
6/28/2018						<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
12/20/2018				<0.0002		
8/27/2019	<0.0002		<0.0002			<0.0002
8/28/2019				<0.0002	<0.0002	
8/29/2019		<0.0002				
8/18/2020	<0.0002	<0.0002				
8/19/2020			8.3E-05 (J)	<0.0002	9.8E-05 (J)	8.2E-05 (J)
9/15/2020	<0.0002	<0.0002	<0.0002		<0.0002	
9/16/2020				<0.0002		<0.0002
3/2/2021	<0.0002	<0.0002	<0.0002			
3/3/2021				<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)					
9/22/2021		0.0001 (J)				
9/28/2021			<0.0002	<0.0002	<0.0002	<0.0002
2/1/2022	<0.0002	<0.0002				
2/2/2022			<0.0002			<0.0002
2/3/2022					<0.0002	
2/4/2022				<0.0002		
8/23/2022	<0.0002	<0.0002	<0.0002			
8/24/2022					<0.0002	<0.0002
8/25/2022				<0.0002		
1/24/2023	<0.0002	<0.0002				
1/25/2023				<0.0002		
1/26/2023			<0.0002		<0.0002	<0.0002
8/22/2023		<0.0002				<0.0002
8/24/2023			<0.0002	<0.0002	<0.0002	
1/30/2024		<0.0002				<0.0002
1/31/2024			<0.0002	<0.0002	0.00078	
8/27/2024		<0.0002		<0.0002	<0.0002	
8/28/2024						<0.0002
8/29/2024			<0.0002			
2/18/2025		<0.0002				
2/19/2025			<0.0002	<0.0002	0.000384	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.0002					
11/21/2016	<0.0002					
2/22/2017	<0.0002					
6/14/2017	9E-05 (J)					
9/27/2017	0.0001 (J)					
2/14/2018	<0.0002					
3/6/2018		<0.0002	<0.0002	<0.0002		
5/1/2018		<0.0002	<0.0002	<0.0002		
6/27/2018	<0.0002			<0.0002		
6/28/2018			<0.0002			
7/31/2018			<0.0002			
8/1/2018				<0.0002		
8/10/2018					<0.0002	
8/23/2018			<0.0002	<0.0002	<0.0002	
9/19/2018			<0.0002	<0.0002	<0.0002	
10/29/2018			<0.0002	<0.0002	<0.0002	
11/28/2018			<0.0002	<0.0002	<0.0002	
12/19/2018	<0.0002			<0.0002		
12/20/2018			<0.0002		<0.0002	
1/17/2019					<0.0002	
2/13/2019					<0.0002	
8/27/2019	<0.0002					
8/28/2019			<0.0002	<0.0002		
8/29/2019					<0.0002	
8/19/2020	8.2E-05 (J)					
8/20/2020			<0.0002	<0.0002	<0.0002	
9/16/2020	<0.0002		<0.0002	<0.0002		
9/17/2020					<0.0002	
3/2/2021			<0.0002	<0.0002		
3/4/2021	<0.0002				<0.0002	
9/23/2021			<0.0002	<0.0002		
9/28/2021	<0.0002	<0.0002			<0.0002	
2/2/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/4/2022						<0.0002
8/23/2022				<0.0002		
8/25/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
1/24/2023	<0.0002					
1/25/2023		<0.0002	<0.0002		<0.0002	
1/26/2023				<0.0002		
1/30/2023						<0.0002
8/22/2023	<0.0002					
8/23/2023		<0.0002				<0.0002
8/24/2023			<0.0002	<0.0002	<0.0002	
1/30/2024	<0.0002	<0.0002		<0.0002		
2/1/2024			<0.0002		<0.0002	<0.0002
8/27/2024		<0.0002				
8/28/2024	<0.0002			<0.0002	<0.0002	
8/29/2024			<0.0002			<0.0002
2/18/2025				<0.0002		
2/19/2025	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.0002		
6/6/2023		<0.0002	
8/23/2023	<0.0002		
8/24/2023		<0.0002	<0.0002
2/1/2024	<0.0002	<0.0002	<0.0002
8/27/2024		<0.0002	<0.0002
8/29/2024	<0.0002		
2/18/2025		0.000121 (J)	<0.0002
2/19/2025	<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	0.0021 (J)	<0.001	0.004 (J)	<0.001		
9/1/2016					<0.001	0.002 (J)
11/15/2016				<0.001	<0.001	
11/16/2016	<0.01	<0.001	0.0038 (J)			<0.01
2/20/2017			0.0055 (J)	<0.001	<0.001	
2/21/2017	0.0021 (J)	<0.001				<0.01
6/12/2017	0.0021 (J)		0.005 (J)	<0.001	<0.001	
6/13/2017		<0.001				
6/14/2017						<0.01
9/26/2017	0.0011 (J)	<0.001	0.0053 (J)	<0.001	<0.001	<0.01
2/13/2018	0.0019 (J)	<0.001	0.008 (J)	<0.001	<0.001	
2/14/2018						<0.01
6/26/2018	<0.01	<0.001	0.0041 (J)	<0.001	<0.001	<0.01
12/18/2018	<0.01	<0.001	0.0048 (J)	<0.001	<0.001	<0.01
8/27/2019	<0.01	<0.001	0.0028 (J)	<0.001	<0.001	<0.01
10/15/2019	<0.01	<0.001	0.0035 (J)	<0.001	<0.001	<0.01
3/3/2020	<0.01	<0.001	0.0023 (J)	<0.001	<0.001	
8/18/2020	0.0011 (J)	<0.001	0.0015 (J)	<0.001	<0.001	<0.01
9/15/2020	0.0007 (J)	<0.001	0.0015 (J)	<0.001	<0.001	<0.01
3/1/2021	<0.01				<0.001	
3/2/2021		<0.001	0.0015 (J)	<0.001		<0.01
9/21/2021			0.002 (J)	<0.001		<0.01
9/22/2021	0.0012 (J)	<0.001			<0.001	
2/1/2022	0.0013 (J)	<0.001	0.002 (J)	<0.001	<0.001	<0.01
8/23/2022	0.0024	<0.001	0.00151	<0.001	<0.001	0.000413 (J)
1/24/2023	0.000601 (J)	<0.001	0.00192	<0.001	<0.001	0.000388 (J)
8/22/2023	0.00169	<0.001	0.000953 (J)	<0.001	<0.001	
1/30/2024	0.000362 (J)	<0.001	0.00143	<0.001	<0.001	
8/27/2024	0.000313 (J)	<0.001	0.00134	<0.001	<0.001	
2/18/2025	0.000375 (J)	<0.001	0.00141	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.001					
9/6/2016		0.0028 (J)				<0.01
9/8/2016			<0.01	<0.001	<0.001	
11/16/2016	<0.001					
11/17/2016		<0.001	<0.01			
11/18/2016				<0.001		
11/21/2016					<0.001	<0.01
2/21/2017	<0.001	<0.001	<0.01	<0.001		
2/22/2017					<0.001	<0.01
6/13/2017	<0.001	<0.001	<0.01	<0.001		
6/14/2017					<0.001	<0.01
9/26/2017	<0.001	<0.001				
9/27/2017			<0.01	<0.001	<0.001	<0.01
2/14/2018	<0.001	<0.001	<0.01	<0.001	<0.001	<0.01
6/26/2018	<0.001	<0.001	<0.01			
6/27/2018				<0.001	<0.001	
6/28/2018						<0.01
12/18/2018	<0.001	<0.001	<0.01		<0.001	<0.01
12/20/2018				<0.001		
8/27/2019	<0.001		<0.01			<0.01
8/28/2019				<0.001	<0.001	
8/29/2019		<0.001				
10/15/2019	<0.001	<0.001	<0.01			
10/16/2019					<0.001	
12/4/2019				<0.001		<0.01
8/18/2020	<0.001	<0.001				
8/19/2020			0.00081 (J)	<0.001	<0.001	0.00078 (J)
9/15/2020	<0.001	<0.001	0.0008 (J)		<0.001	
9/16/2020				<0.001		0.0022 (J)
3/2/2021	<0.001	<0.001	0.001 (J)			
3/3/2021				<0.001	<0.001	<0.01
9/21/2021	<0.001					
9/22/2021		<0.001				
9/28/2021			0.00089 (J)	<0.001	<0.001	0.001 (J)
2/1/2022	<0.001	<0.001				
2/2/2022			0.0011 (J)			0.0012 (J)
2/3/2022					<0.001	
2/4/2022				<0.001		
8/23/2022	<0.001	<0.001	0.00105			
8/24/2022					<0.001	0.00141
8/25/2022				<0.001		
1/24/2023	<0.001	<0.001				
1/25/2023				<0.001		
1/26/2023			0.00092 (J)		<0.001	0.0014
8/22/2023		<0.001				0.00111
8/24/2023			0.00141	<0.001	<0.001	
1/30/2024		0.000217 (J)				0.00137
1/31/2024			0.0014	0.000213 (J)	<0.001	
8/27/2024		0.000225 (J)		0.000211 (J)	<0.001	
8/28/2024						0.00123
8/29/2024			0.00123			
2/18/2025		0.000273 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
2/19/2025			0.00082 (J)	<0.001	<0.001	0.00128

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.001					
11/21/2016	<0.001					
2/22/2017	<0.001					
6/14/2017	<0.001					
9/27/2017	<0.001					
2/14/2018	<0.001					
3/6/2018		<0.001	<0.001	<0.01		
5/1/2018		<0.001	<0.001	<0.01		
6/27/2018	<0.001			<0.01		
6/28/2018			<0.001			
7/31/2018			<0.001			
8/1/2018				<0.01		
8/10/2018					0.0032 (J)	
8/23/2018			<0.001	<0.01	0.005 (J)	
9/19/2018			<0.001	<0.01	0.0061 (J)	
10/29/2018			<0.001	<0.01	0.0065 (J)	
11/28/2018			<0.001	<0.01	0.0027 (J)	
12/19/2018	<0.001			<0.01		
12/20/2018			<0.001		<0.01	
1/17/2019					<0.01	
2/13/2019					<0.01	
8/27/2019	<0.001					
8/28/2019			<0.001	<0.01		
8/29/2019					<0.01	
10/16/2019				<0.01	<0.01	
12/3/2019			<0.001			
12/4/2019	<0.001					
8/19/2020	<0.001					
8/20/2020			0.00076 (J)	<0.01	0.0012 (J)	
9/16/2020	<0.001		<0.001	<0.01		
9/17/2020					0.0007 (J)	
3/2/2021			<0.001	<0.01		
3/4/2021	<0.001				0.001 (J)	
9/23/2021			<0.001	<0.01		
9/28/2021	<0.001	<0.001			<0.01	
2/2/2022	<0.001	<0.001	<0.001	<0.01	<0.01	
2/4/2022						0.00092 (J)
8/23/2022				0.000296 (J)		
8/25/2022	<0.001	<0.001	0.000424 (J)		0.000471 (J)	0.000741 (J)
1/24/2023	<0.001					
1/25/2023		<0.001	0.000545 (J)		0.000609 (J)	
1/26/2023				0.00027 (J)		
1/30/2023						0.000803 (J)
8/22/2023	<0.001					
8/23/2023		<0.001				0.000539 (J)
8/24/2023			0.000356 (J)	0.000296 (J)	0.000782 (J)	
1/30/2024	<0.001	<0.001		0.00028 (J)		
2/1/2024			<0.001		0.000564 (J)	0.0007 (J)
8/27/2024		<0.001				
8/28/2024	<0.001			0.000252 (J)	0.000691 (J)	
8/29/2024			0.000207 (J)			0.000827 (J)
2/18/2025				0.000295 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
2/19/2025	<0.001	<0.001	0.000261 (J)		0.000826 (J)	0.000765 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.0111		
6/6/2023		0.00276	
8/23/2023	0.00625		
8/24/2023		0.000597 (J)	<0.001
2/1/2024	0.00598	<0.001	<0.001
8/27/2024		<0.001	<0.001
8/29/2024	0.00702		
2/18/2025		<0.001	<0.001
2/19/2025	0.00612		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	7.16	6.2	6.53	6.59		
9/1/2016					6.49	6.71
11/15/2016				6.67	6.59	
11/16/2016	6.96	6.12	6.4			6.15
2/20/2017			6.44	6.65	6.61	
2/21/2017	7.15	6.24				6.52
6/12/2017	7.31		6.4	6.64		
6/13/2017		6.19				
6/14/2017						6.51
9/26/2017	7.02	6.15	6.31	6.58	6.47	6.42
2/13/2018	7.44	6.18	6.62	6.72	6.54	
2/14/2018						6.48
6/26/2018	6.93	6.05	6.29	6.43	6.23	6.2
7/31/2018						6.37
12/18/2018	6.76	5.92	6.57	6.7	6.71	6.5
3/19/2019	6.87	6.18	6.45	6.63	6.18	6.28
8/27/2019	6.79	6.09	6.37	6.49	6.35	6.35
10/15/2019	6.57	6.06	6.77	7.01	6.36	6.8
3/3/2020	6.71	6.1	6.29	6.49	6.59	6.33
8/18/2020	6.59	6.06	6.29	6.41	6.33	6.25
9/15/2020	6.64	6.01	6.27	6.25	6.43	6.01
3/1/2021	6.66				6.7	
3/2/2021		6.2	6.47	6.42		6.11
9/21/2021			6.32	6.36		6.53
9/22/2021	6.78	6.06			6.48	
2/1/2022	6.83	5.95	6.38	6.39	6.54	6.4
8/23/2022	6.67	5.95	6.24	6.36	6.51	6.39
10/12/2022		5.69				
1/24/2023	6.7	5.26	6.42	6.47	6.54	6.48
8/22/2023	6.95	5.96	6.24	6.08	6.09	
10/30/2023	6.22	5.5			6.28	
1/30/2024	6.57	6.05	6.44	6.38	5.75	
8/27/2024	6.6	6.02	6.56	6.65	6.8	
2/18/2025	6.42	5.88	6.17	6.42	6.38	

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	6					
9/6/2016		6.49				6.23
9/8/2016			6.07	5.51	4.62	
11/16/2016	6					
11/17/2016		5.79	5.96			
11/18/2016				5.53		
11/21/2016					4.44	6.23
2/21/2017	6.09	6.15	5.98	5.63		
2/22/2017					4.42	6.16
6/13/2017	6.03	5.87	5.96	5.57		
6/14/2017					4.45	6.16
9/26/2017	5.85	5.82				
9/27/2017			5.85	5.53	4.33	6.16
2/14/2018	5.99	5.83	5.94	5.83	4.42	6.24
6/26/2018	5.86	5.73	5.87			
6/27/2018				5.53	4.37	
6/28/2018						6.21
7/31/2018	5.99					
12/18/2018	6.08	5.78	5.84		4.38	6.18
12/20/2018				5.78		
3/19/2019	5.71	5.28		5.75		
3/20/2019			6.03		4.4	6.24
8/27/2019	6		6.01			6.17
8/28/2019				5.51	4.39	
8/29/2019		5.64				
10/15/2019	6.61	5.7	6			
10/16/2019					4.79	
10/17/2019				6.01		6.43
12/4/2019				5.71		6.18
3/3/2020	5.94					
3/4/2020		5.7	6.02	5.8	4.5	
3/5/2020						5.99
8/18/2020	5.95	5.56				
8/19/2020			6.32	5.81	4.67	6.36
9/15/2020	6	5.72	6		4.53	
9/16/2020				5.81		6.29
3/2/2021	5.92	5.75	6.1			
3/3/2021				5.9	4.46	6.29
9/21/2021	5.87					
9/22/2021		5.72				
9/28/2021			5.97	5.82	4.23	6.33
2/1/2022	5.81	5.65				
2/2/2022			6.23			6.34
2/3/2022					4.23	
2/4/2022				5.97		
8/23/2022	5.9	5.66	6.11			
8/24/2022					4.39	6.38
8/25/2022				6.03		
1/24/2023	5.97	5.76				
1/25/2023				5.63		
1/26/2023			6.18		4.3	6.28
4/24/2023		5.56	6.25			

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/22/2023		5.89				6.44
8/24/2023			6.14	6.01	4.48	
1/30/2024		5.87				6.39
1/31/2024			6.31	5.83	4.37	
5/8/2024				6.08		
8/27/2024		5.92		5.95	4.47	
8/28/2024						6.49
8/29/2024			6.52			
2/18/2025		5.8				
2/19/2025			6.13	5.44	3.91	6.37

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	5.89					
11/21/2016	5.56					
2/22/2017	5.87					
6/14/2017	5.83					
9/27/2017	5.87					
2/14/2018	6.01					
3/6/2018		6.1	6.15	6		
3/15/2018			5.26			
5/1/2018		6.12	6.14	5.85		
6/27/2018	5.83			5.87		
6/28/2018			5.88			
7/31/2018			6.07			
8/1/2018				5.79		
8/10/2018					6.28	
8/23/2018					6.75	
9/19/2018			5.9	5.71	6.48	
10/29/2018			5.93	5.76	6.77	
11/28/2018			5.99	5.74	6.44	
12/19/2018	5.79			5.8		
12/20/2018			6.04		6.75	
1/17/2019					6.41	
2/13/2019					6.42	
3/19/2019				5.89		
3/20/2019	5.88		6.1		6.59	
8/27/2019	5.85					
8/28/2019			5.86	5.74		
8/29/2019					6.27	
10/16/2019				5.9	7	
10/17/2019	6.09		5.93			
12/3/2019			5.94			
12/4/2019	5.83					
3/4/2020				5.76	6.54	
3/5/2020	5.74		5.95			
5/12/2020	5.88					
8/19/2020	5.97					
8/20/2020			5.86	5.75	6.85	
9/16/2020	5.79		5.27	5.76		
9/17/2020					6.12	
3/2/2021			6.17	5.59		
3/4/2021	5.98				5.87	
9/23/2021			5.95	5.74		
9/28/2021	5.82	6.22			6.81	
2/2/2022	5.99	6.2	5.92	5.75	6.35	
2/4/2022						5.89
8/23/2022				5.61		
8/25/2022	6.06	6.06	5.74		6.21	5.65
1/24/2023	6.05					
1/25/2023		6.13	5.82		6.25	
1/26/2023				5.65		
1/30/2023						5.66
4/24/2023			5.9		6.63	
4/25/2023		6.24		5.64		5.59

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
5/30/2023	5.73					
8/22/2023	5.98					
8/23/2023		6.11				5.68
8/24/2023			5.71	5.69	6.24	
10/30/2023		5.73				
1/30/2024	5.98	6.18		5.73		
2/1/2024			5.85		6.3	5.7
5/8/2024	5.93					
8/27/2024		6.19				
8/28/2024	6.05			5.57	6.49	
8/29/2024			6.26			5.7
2/18/2025				5.73		
2/19/2025	6.11	6.2	5.78		6.26	5.59

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	7.28		
6/6/2023		5.83	
7/5/2023			5.68
8/23/2023	7.41		
8/24/2023		5.89	5.76
2/1/2024	7.41	6.09	5.92
8/27/2024		5.89	5.63
8/29/2024	7.36		
2/18/2025		6.03	5.84
2/19/2025	7.23		

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	<0.005	<0.005	<0.005	<0.005		
9/1/2016					<0.005	<0.005
11/15/2016				<0.005	<0.005	
11/16/2016	<0.005	<0.005	<0.005			<0.005
2/20/2017			<0.005	<0.005	<0.005	
2/21/2017	<0.005	<0.005				<0.005
6/12/2017	<0.005		<0.005	<0.005	<0.005	
6/13/2017		<0.005				
6/14/2017						<0.005
9/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
2/14/2018						<0.005
6/26/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/15/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/3/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021	<0.005				<0.005	
3/2/2021		<0.005	<0.005	<0.005		<0.005
9/21/2021			<0.005	<0.005		<0.005
9/22/2021	<0.005	<0.005			<0.005	
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/22/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
1/30/2024	<0.005	<0.005	<0.005	<0.005	<0.005	
8/27/2024	<0.005	<0.005	<0.005	<0.005	<0.005	
2/18/2025	<0.005	<0.005	<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.005					
9/6/2016		<0.005				<0.005
9/8/2016			<0.005	0.0043 (J)	0.0039 (J)	
11/16/2016	<0.005					
11/17/2016		0.0052 (J)	<0.005			
11/18/2016				0.0047 (J)		
11/21/2016					0.0058 (J)	<0.005
2/21/2017	<0.005	0.0018 (J)	<0.005	0.0025 (J)		
2/22/2017					0.005 (J)	<0.005
6/13/2017	<0.005	<0.005	<0.005	0.0036 (J)		
6/14/2017					0.0074 (J)	0.0045 (J)
9/26/2017	<0.005	<0.005				
9/27/2017			<0.005	0.004 (J)	0.0068 (J)	0.0034 (J)
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/26/2018	<0.005	0.0036 (J)	<0.005			
6/27/2018				0.0014 (J)	<0.005	
6/28/2018						<0.005
12/18/2018	<0.005	0.0044 (J)	<0.005		<0.005	<0.005
12/20/2018				<0.005		
8/27/2019	<0.005		<0.005			0.0038 (J)
8/28/2019				0.0017 (J)	<0.005	
8/29/2019		0.0023 (J)				
10/15/2019	<0.005	0.0022 (J)	<0.005			
10/16/2019					<0.005	
12/4/2019				0.0036 (J)		0.0018 (J)
3/3/2020	<0.005					
3/4/2020		0.0019 (J)	<0.005	0.0022 (J)	0.0018 (J)	
3/5/2020						<0.005
8/18/2020	<0.005	0.0033 (J)				
8/19/2020			<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	0.0028 (J)	<0.005		<0.005	
9/16/2020				0.0042 (J)		<0.005
3/2/2021	<0.005	0.006	0.0021 (J)			
3/3/2021				0.0031 (J)	0.0042 (J)	<0.005
9/21/2021	<0.005					
9/22/2021		0.0016 (J)				
9/28/2021			<0.005	<0.005	0.0022 (J)	<0.005
2/1/2022	<0.005	0.002 (J)				
2/2/2022			<0.005			<0.005
2/3/2022					<0.005	
2/4/2022				<0.005		
8/23/2022	<0.005	<0.005	<0.005			
8/24/2022					<0.005	<0.005
8/25/2022				<0.005		
1/24/2023	<0.005	<0.005				
1/25/2023				<0.005		
1/26/2023			<0.005		<0.005	<0.005
8/22/2023		<0.005				<0.005
8/24/2023			<0.005	<0.005	<0.005	
1/30/2024		<0.005				<0.005
1/31/2024			<0.005	<0.005	0.00229 (J)	
8/27/2024		<0.005		<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/28/2024						<0.005
8/29/2024			<0.005			
2/18/2025		0.0024 (J)				
2/19/2025			0.00217 (J)	0.00309 (J)	0.0045 (J)	0.00316 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.01					
11/21/2016	<0.01					
2/22/2017	0.0017 (J)					
6/14/2017	<0.01					
9/27/2017	0.0019 (J)					
2/14/2018	<0.01					
3/6/2018		<0.005	<0.005	<0.005		
5/1/2018		<0.005	<0.005	<0.005		
6/27/2018	0.0017 (J)			<0.005		
6/28/2018			<0.005			
7/31/2018			<0.005			
8/1/2018				0.0015 (J)		
8/10/2018					<0.005	
8/23/2018			<0.005	0.0024 (J)	<0.005	
9/19/2018			<0.005	0.002 (J)	<0.005	
10/29/2018			<0.005	<0.005	<0.005	
11/28/2018			<0.005	<0.005	<0.005	
12/19/2018	0.0059 (J)			<0.005		
12/20/2018			<0.005		<0.005	
1/17/2019					<0.005	
2/13/2019					<0.005	
8/27/2019	0.057					
8/28/2019			<0.005	<0.005		
8/29/2019					<0.005	
10/16/2019				0.0017 (J)	<0.005	
12/3/2019			0.0029 (J)			
12/4/2019	0.1					
3/4/2020				<0.005	<0.005	
3/5/2020	0.1		<0.005			
5/12/2020	0.0989					
8/19/2020	0.099					
8/20/2020			<0.005	0.0016 (J)	<0.005	
9/16/2020	0.12		<0.005	0.002 (J)		
9/17/2020					<0.005	
3/2/2021			<0.005	0.0028 (J)		
3/4/2021	0.14				<0.005	
9/23/2021			<0.005	<0.005		
9/28/2021	0.13	<0.005			<0.005	
2/2/2022	0.21	<0.005	<0.005	<0.005	<0.005	
2/4/2022						<0.005
8/23/2022				<0.005		
8/25/2022	0.218	<0.005	<0.005		<0.005	<0.005
1/24/2023	0.198					
1/25/2023		<0.005	<0.005		<0.005	
1/26/2023				<0.005		
1/30/2023						<0.005
5/30/2023	0.189					
8/22/2023	0.21					
8/23/2023		<0.005				<0.005
8/24/2023			<0.005	<0.005	<0.005	
1/30/2024	0.17	<0.005		<0.005		
2/1/2024			<0.005		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/27/2024		<0.005				
8/28/2024	0.0945			<0.005	<0.005	
8/29/2024			<0.005			<0.005
2/18/2025				<0.005		
2/19/2025	0.0782	0.00202 (J)	0.00237 (J)		0.00198 (J)	0.00262 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.005		
6/6/2023		0.0237	
7/5/2023			0.0732
8/23/2023	<0.005		
8/24/2023		0.0423	0.0696
2/1/2024	<0.005	0.0489	0.0954
8/27/2024		0.0597	0.106
8/29/2024	<0.005		
2/18/2025		0.0622	0.122
2/19/2025	0.00205 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	7.5	0.38 (J)	2.7	0.81 (J)		
9/1/2016					0.6 (J)	2.7
11/15/2016				0.87 (J)	0.49 (J)	
11/16/2016	6.6	0.36 (J)	3.4			3.6
2/20/2017			3.9	1	0.98 (J)	
2/21/2017	6.1	1.5				3
6/12/2017	5		3.7	0.94 (J)	0.54 (J)	
6/13/2017		0.67 (J)				
6/14/2017						2.6
9/26/2017	5.4	0.62 (J)	4.1	0.92 (J)	0.53 (J)	2.5
2/13/2018	4.7 (J)	<1	6.6	<1	<1	
2/14/2018						2.1 (J)
6/26/2018	6.2	0.69 (J)	3.5	0.91 (J)	0.54 (J)	2
7/31/2018						1.9
12/18/2018	5.9	0.72 (J)	4.3	0.68 (J)	0.39 (J)	2.1
3/19/2019	6	0.78 (J)	3	0.74 (J)	0.68 (J)	2.2
10/15/2019	5.2	0.47 (J)	3.8	0.68 (J)	0.48 (J)	1.9
3/3/2020	7.1	0.93 (J)	2.8	0.71 (J)	2.5	1.8
9/15/2020	5.9	<1	1.7	<1	<1	1.7
3/1/2021	4.7				0.74 (J)	
3/2/2021		<1	2.2	<1		1.7
9/21/2021			2.3	<1		1.7
9/22/2021	5.2	<1			<1	
2/1/2022	5.4	<1	2	<1	<1	1.4
8/23/2022	5.66	0.452	2.21	0.521	0.479	1.84
1/24/2023	3.58	0.465	3.34	0.66	0.484	1.8
8/22/2023	6.85	0.526	1.83	0.54	0.467	
1/30/2024	2.65	0.423	2.74	0.617	0.456	
8/27/2024	2.58	0.444	2.67	0.652	0.465	
2/18/2025	3.07	0.341 (J)	3.16	0.543	0.468	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	1.7					
9/6/2016		38				310
9/8/2016			280	300	460	
11/16/2016	1.2					
11/17/2016		84	200			
11/18/2016				320		
11/21/2016					500	300
2/21/2017	1.1	39	360	270		
2/22/2017					570	280
6/13/2017	1.1	35	290	230		
6/14/2017					440	290
9/26/2017	1.3	89				
9/27/2017			310	260	380	260
2/14/2018	<1	82.2	260	232	280	250
6/26/2018	0.84 (J)	84.2	231			
6/27/2018				205	281	
6/28/2018						276
7/31/2018	0.63 (J)					
12/18/2018	0.66 (J)	83.4	231		293	440
12/20/2018				200		
3/19/2019	0.75 (J)	65		199		
3/20/2019			240		278	623
10/15/2019	0.61 (J)	30	174			
10/16/2019					266	
12/4/2019				241		327
3/3/2020	0.51 (J)					
3/4/2020		38.6	165	205	238	
3/5/2020						369
9/15/2020	<1	41.5	126		241	
9/16/2020				190		334
3/2/2021	0.51	54	139			
3/3/2021				172	341	371
9/21/2021	0.51 (J)					
9/22/2021		34.6				
9/28/2021			112	137	250	612
2/1/2022	<1	36.8				
2/2/2022			117			580
2/3/2022					274	
2/4/2022				172		
8/23/2022	0.636	24.4	158			
8/24/2022					298	935
8/25/2022				176		
1/24/2023	0.628	19.7				
1/25/2023				150		
1/26/2023			182		293	1030
8/22/2023		11.3				1250
8/24/2023			174	94.5	288	
1/30/2024		10.4				1210
1/31/2024			169	155	328	
5/8/2024				196		
8/27/2024		9.73		174	261	
8/28/2024						1260

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/29/2024			216			
2/18/2025		13.6				
2/19/2025			204	134	346	1310

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	370					
11/21/2016	420					
2/22/2017	380					
6/14/2017	400					
9/27/2017	400					
2/14/2018	383					
3/6/2018		51.8	111	1560		
5/1/2018		51	112	1560		
6/27/2018	372			1450		
6/28/2018			109			
7/31/2018			107			
8/1/2018				1560		
8/10/2018					183	
8/23/2018			108	1470	145	
9/19/2018			117	1500	178	
10/29/2018			127	1720	157	
11/28/2018			133	1730	189	
12/19/2018	370			1520		
12/20/2018			113		150	
1/17/2019					157	
2/13/2019					169	
3/19/2019				1100		
3/20/2019	409		127		180	
10/16/2019				1560	155	
12/3/2019			105			
12/4/2019	293					
3/4/2020				1380	129	
3/5/2020	269		106			
9/16/2020	255		103	1360		
9/17/2020					165	
3/2/2021			98.3	1360		
3/4/2021	185				114	
9/23/2021			97.5	1240		
9/28/2021	189	47.2			132	
2/2/2022	210	45.3	90.1	1170	126	
2/4/2022						195
8/23/2022				1410		
8/25/2022	254	47	114		142	234
1/24/2023	247					
1/25/2023		41	102		145	
1/26/2023				1310		
1/30/2023						280
8/22/2023	256					
8/23/2023		49.5				294
8/24/2023			114	1300	150	
1/30/2024	246	42.4		1360		
2/1/2024			110		145	352
5/8/2024	233					
8/27/2024		41.8				
8/28/2024	201			1310	150	
8/29/2024			150			344
2/18/2025				1340		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
2/19/2025	196	41.1	169		149	403

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	258		
6/6/2023		304	
7/5/2023			267
8/23/2023	298		
8/24/2023		309	275
2/1/2024	279	306	304
8/27/2024		260	257
8/29/2024	280		
2/18/2025		268	273
2/19/2025	308		

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	151	88	138	154		
9/1/2016					299 (O)	142
11/15/2016				123	41	
11/16/2016	69	41	77			100
2/20/2017			170	158	133	
2/21/2017	68	<25				71
6/12/2017	161		132	142	61	
6/13/2017		53				
6/14/2017						140
9/26/2017	167	45	108	138	29	149
2/13/2018	165	63	141	150	61	
2/14/2018						137
6/26/2018	188	71	133	154	71	142
7/31/2018						133
12/18/2018	145	78	138	147	70	135
3/19/2019	154	68	130	146	72	132
10/15/2019	140	66	175	144	63	134
3/3/2020	155	41	<10	130	54	115
9/15/2020	116	69	100	116	79	95
3/1/2021	98				39	
3/2/2021		43	80	96		93
9/21/2021			108	104		117
9/22/2021	129	66			62	
2/1/2022	126	72	129	124	61	114
8/23/2022	117	45	107	101	52	104
1/24/2023	93	63	124	104	64	114
8/22/2023	81	36	80	73	30	
1/30/2024	98	54	118	113	45	
8/27/2024	82	51	107	101	57	
2/18/2025	84	44	106	92	46	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	69					
9/6/2016		146				505
9/8/2016			460	478	654	
11/16/2016	100					
11/17/2016		211	611			
11/18/2016				503		
11/21/2016					819	515
2/21/2017	37	151	497	380		
2/22/2017					721	504
6/13/2017	84	130	474	354		
6/14/2017					661	536
9/26/2017	68	160				
9/27/2017			457	376	518	432
2/14/2018	138	194	431	503	487	448
6/26/2018	90	221	414			
6/27/2018				458	648	
6/28/2018						494
7/31/2018	83					
12/18/2018	85	208	401		407	715
12/20/2018				344		
3/19/2019	82	161		334		
3/20/2019			412		391	885
10/15/2019	89	124	380			
10/16/2019					2030	
12/4/2019				422		612
3/3/2020	72					
3/4/2020		118	330	326	391	
3/5/2020						681
9/15/2020	60	109	272		281	
9/16/2020				301		634
3/2/2021	43	105	280			
3/3/2021				288	515	690
9/21/2021	56					
9/22/2021		128				
9/28/2021			270	262	457	1050
2/1/2022	63	130				
2/2/2022			283			1110
2/3/2022					419	
2/4/2022				301		
8/23/2022	55	103	315			
8/24/2022					383	1540
8/25/2022				311		
1/24/2023	59	102				
1/25/2023				260		
1/26/2023			339		419	1680
8/22/2023		70				1920
8/24/2023			354	309	418	
1/30/2024		85				1970
1/31/2024			391	299	535	
5/8/2024				371		
8/27/2024		86		346	424	
8/28/2024						2030

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/29/2024			492			
2/18/2025		104				
2/19/2025			419	222	519	2120

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	607					
11/21/2016	695					
2/22/2017	635					
6/14/2017	635					
9/27/2017	601					
2/14/2018	628					
3/6/2018		191	346	2200		
5/1/2018		189	374	2080		
6/27/2018	2280			31 (O)		
6/28/2018			333			
7/31/2018			393			
8/1/2018				2190		
8/10/2018					344	
8/23/2018			350	2160	333	
9/19/2018			353	2160	364	
10/29/2018			329	2130	334	
11/28/2018			358	2320	357	
12/19/2018	605			2060		
12/20/2018			322		355	
1/17/2019					347	
2/13/2019					350	
3/19/2019				2050		
3/20/2019	564		302		366	
10/16/2019				2220	346	
12/3/2019			362			
12/4/2019	526					
3/4/2020				2140	351	
3/5/2020	489		297			
9/16/2020	428		275	2090		
9/17/2020					329	
3/2/2021			264	1680		
3/4/2021	350				383	
9/23/2021			277	1770		
9/28/2021	375	181			336	
2/2/2022	443	181	276	1850	160	
2/4/2022						403
8/23/2022				2060		
8/25/2022	437	167	248		296	419
1/24/2023	425					
1/25/2023		156	251		276	
1/26/2023				2010		
1/30/2023						448
8/22/2023	412					
8/23/2023		184				503
8/24/2023			242	1970	281	
1/30/2024	418	179		2160		
2/1/2024			255		303	561
5/8/2024	363					
8/27/2024		180				
8/28/2024	374			1780	310	
8/29/2024			353			625
2/18/2025				1960		

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
2/19/2025	351	131	348		298	664

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	525		
6/6/2023		523	
7/5/2023			487
8/23/2023	597		
8/24/2023		506	430
2/1/2024	583	536	450
8/27/2024		519	467
8/29/2024	601		
2/18/2025		471	476
2/19/2025	568		

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWA-12I (bg)
8/31/2016	<0.002	<0.002	<0.002	<0.002		
9/1/2016					<0.002	<0.002
11/15/2016				<0.002	<0.002	
11/16/2016	<0.002	<0.002	<0.002			<0.002
2/20/2017			<0.002	<0.002	<0.002	
2/21/2017	<0.002	<0.002				<0.002
6/12/2017	<0.002		<0.002	<0.002	<0.002	
6/13/2017		<0.002				
6/14/2017						<0.002
9/26/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002	
2/14/2018						<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/3/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2021	<0.002				<0.002	
3/2/2021		<0.002	<0.002	<0.002		<0.002
9/21/2021			<0.002	<0.002		<0.002
9/22/2021	<0.002	<0.002			<0.002	
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/22/2023	<0.002	<0.002	<0.002	<0.002	<0.002	
1/30/2024	<0.002	<0.002	<0.002	<0.002	<0.002	
8/27/2024	<0.002	<0.002	<0.002	<0.002	<0.002	
2/18/2025	<0.002	<0.002	<0.002	<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
9/1/2016	<0.002					
9/6/2016		<0.002				<0.002
9/8/2016			<0.002	<0.002	<0.002	
11/16/2016	<0.002					
11/17/2016		<0.002	<0.002			
11/18/2016				<0.002		
11/21/2016					0.0002 (J)	<0.002
2/21/2017	<0.002	<0.002	<0.002	<0.002		
2/22/2017					0.0002 (J)	<0.002
6/13/2017	<0.002	<0.002	<0.002	<0.002		
6/14/2017					0.0002 (J)	<0.002
9/26/2017	<0.002	<0.002				
9/27/2017			<0.002	<0.002	0.0002 (J)	<0.002
2/14/2018	<0.002	<0.002	<0.002	<0.002	0.00018 (J)	<0.002
6/26/2018	<0.002	<0.002	<0.002			
6/27/2018				<0.002	0.00017 (J)	
6/28/2018						<0.002
12/18/2018	<0.002	<0.002	<0.002		0.00017 (J)	<0.002
12/20/2018				<0.002		
8/27/2019	<0.002		<0.002			<0.002
8/28/2019				<0.002	0.00017 (J)	
8/29/2019		<0.002				
10/15/2019	<0.002	<0.002	<0.002			
10/16/2019					0.00017 (J)	
12/4/2019				<0.002		<0.002
3/3/2020	<0.002					
3/4/2020		<0.002	<0.002	<0.002	0.00016 (J)	
3/5/2020						<0.002
8/18/2020	<0.002	<0.002				
8/19/2020			<0.002	<0.002	0.00016 (J)	<0.002
9/15/2020	<0.002	<0.002	<0.002		0.00016 (J)	
9/16/2020				<0.002		<0.002
3/2/2021	<0.002	<0.002	<0.002			
3/3/2021				<0.002	0.00018 (J)	<0.002
9/21/2021	<0.002					
9/22/2021		<0.002				
9/28/2021			<0.002	<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002				
2/2/2022			<0.002			<0.002
2/3/2022					<0.002	
2/4/2022				<0.002		
8/23/2022	<0.002	<0.002	<0.002			
8/24/2022					<0.002	<0.002
8/25/2022				<0.002		
1/24/2023	<0.002	<0.002				
1/25/2023				<0.002		
1/26/2023			<0.002		<0.002	<0.002
8/22/2023		<0.002				<0.002
8/24/2023			<0.002	<0.002	<0.002	
1/30/2024		<0.002				<0.002
1/31/2024			<0.002	<0.002	<0.002	
8/27/2024		<0.002		<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I
8/28/2024						<0.002
8/29/2024			<0.002			
2/18/2025		<0.002				
2/19/2025			<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
9/8/2016	<0.002					
11/21/2016	<0.002					
2/22/2017	<0.002					
6/14/2017	<0.002					
9/27/2017	<0.002					
2/14/2018	<0.002					
3/6/2018		<0.002	<0.002	<0.002		
5/1/2018		<0.002	<0.002	<0.002		
6/27/2018	<0.002			<0.002		
6/28/2018			<0.002			
7/31/2018			<0.002			
8/1/2018				<0.002		
8/10/2018					<0.002	
8/23/2018			<0.002	<0.002	<0.002	
9/19/2018			<0.002	<0.002	<0.002	
10/29/2018			<0.002	<0.002	<0.002	
11/28/2018			<0.002	<0.002	<0.002	
12/19/2018	<0.002			<0.002		
12/20/2018			<0.002		<0.002	
1/17/2019					<0.002	
2/13/2019					<0.002	
8/27/2019	<0.002					
8/28/2019			<0.002	<0.002		
8/29/2019					<0.002	
10/16/2019				<0.002	<0.002	
12/3/2019			<0.002			
12/4/2019	<0.002					
3/4/2020				<0.002	<0.002	
3/5/2020	<0.002		<0.002			
8/19/2020	<0.002					
8/20/2020			<0.002	<0.002	<0.002	
9/16/2020	<0.002		<0.002	<0.002		
9/17/2020					<0.002	
3/2/2021			<0.002	<0.002		
3/4/2021	<0.002				<0.002	
9/23/2021			<0.002	<0.002		
9/28/2021	<0.002	<0.002			<0.002	
2/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002	
2/4/2022						<0.002
8/23/2022				<0.002		
8/25/2022	<0.002	<0.002	<0.002		<0.002	<0.002
1/24/2023	<0.002					
1/25/2023		<0.002	<0.002		<0.002	
1/26/2023				<0.002		
1/30/2023						<0.002
8/22/2023	<0.002					
8/23/2023		<0.002				<0.002
8/24/2023			<0.002	<0.002	<0.002	
1/30/2024	<0.002	<0.002		<0.002		
2/1/2024			<0.002		<0.002	<0.002
8/27/2024		<0.002				
8/28/2024	<0.002			<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/29/2024			<0.002			<0.002
2/18/2025				<0.002		
2/19/2025	<0.002	<0.002	<0.002		<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 3:07 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

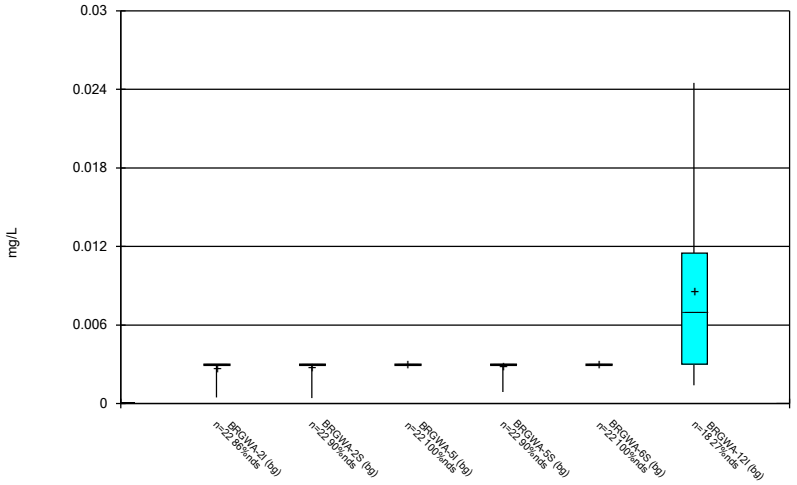
	PZ-68D	PZ-74I	PZ-75I
2/1/2023	<0.002		
6/6/2023		<0.002	
8/23/2023	<0.002		
8/24/2023		<0.002	<0.002
2/1/2024	<0.002	<0.002	<0.002
8/27/2024		<0.002	<0.002
8/29/2024	<0.002		
2/18/2025		<0.002	<0.002
2/19/2025	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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Box & Whiskers Plot

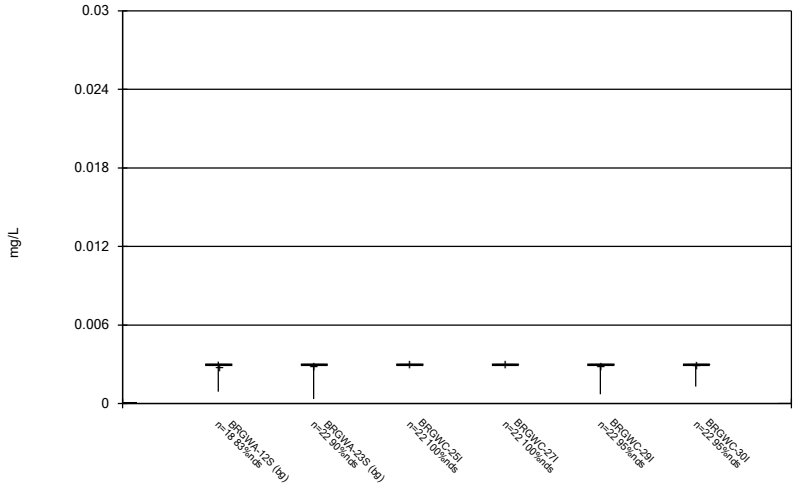


Constituent: Antimony Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

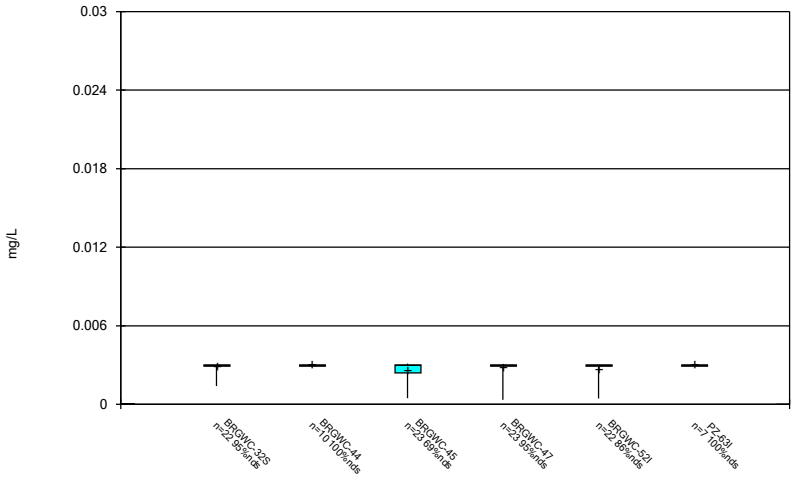


Constituent: Antimony Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

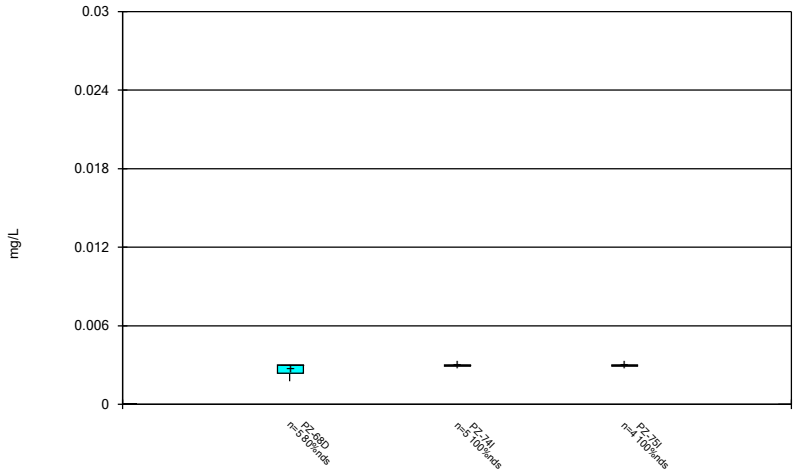


Constituent: Antimony Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

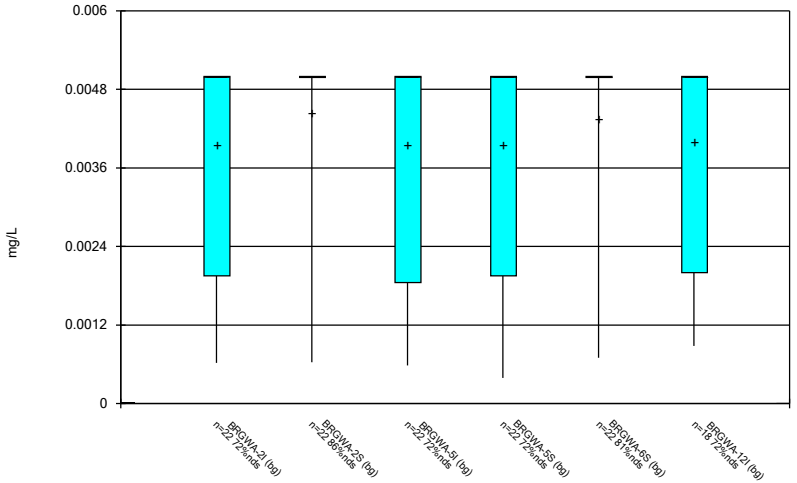


Constituent: Antimony Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

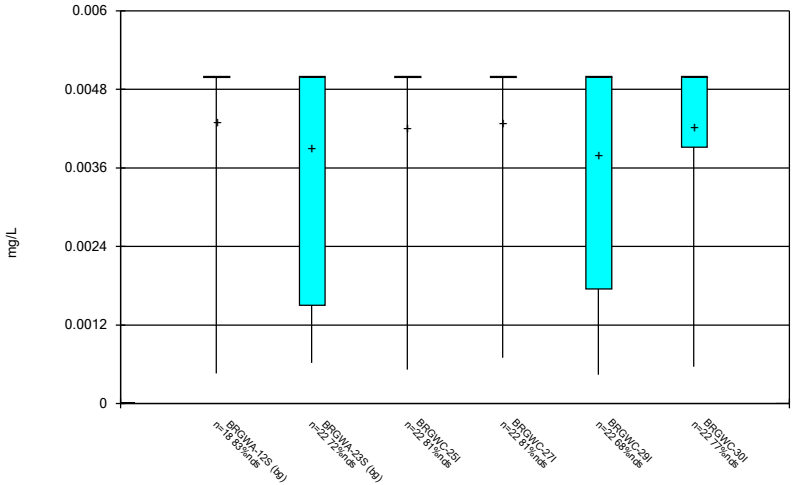


Constituent: Arsenic Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

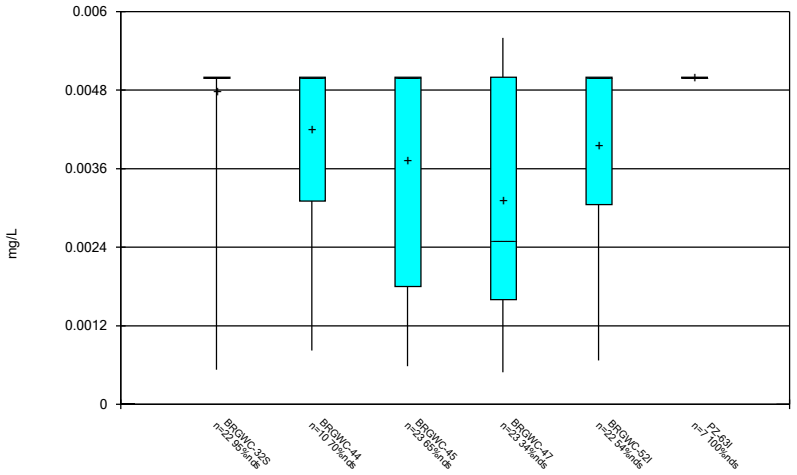


Constituent: Arsenic Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

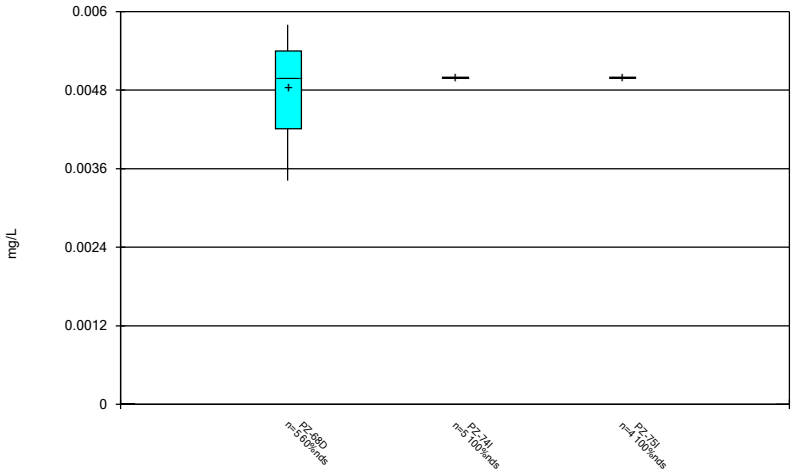


Constituent: Arsenic Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

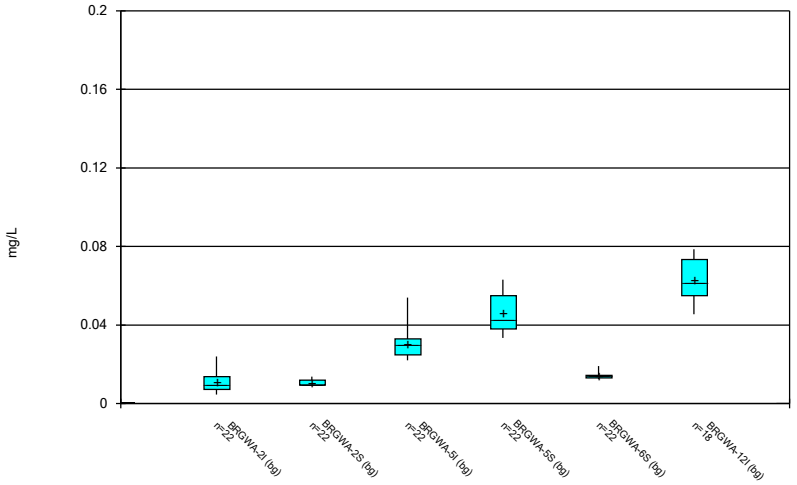


Constituent: Arsenic Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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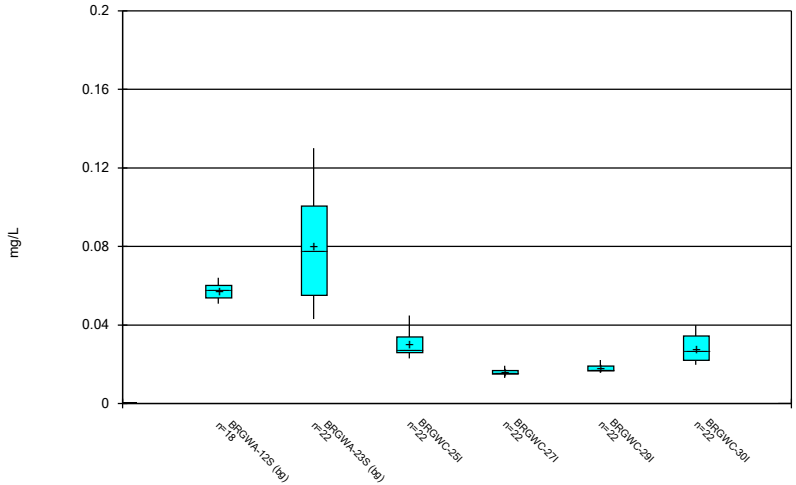
Box & Whiskers Plot



Constituent: Barium Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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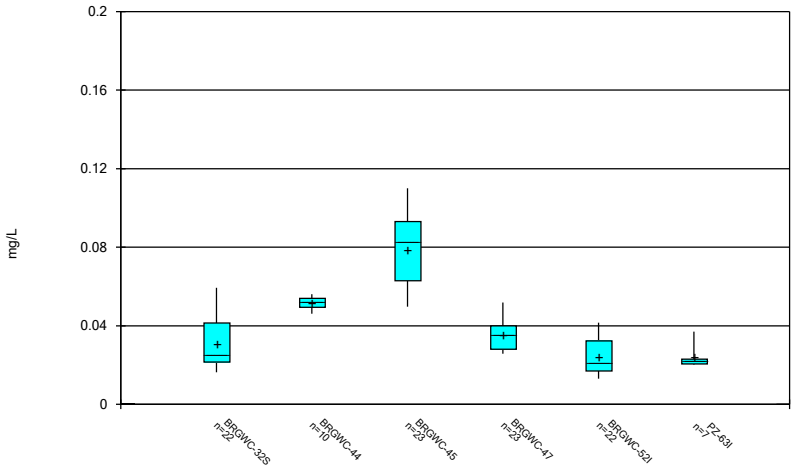
Box & Whiskers Plot



Constituent: Barium Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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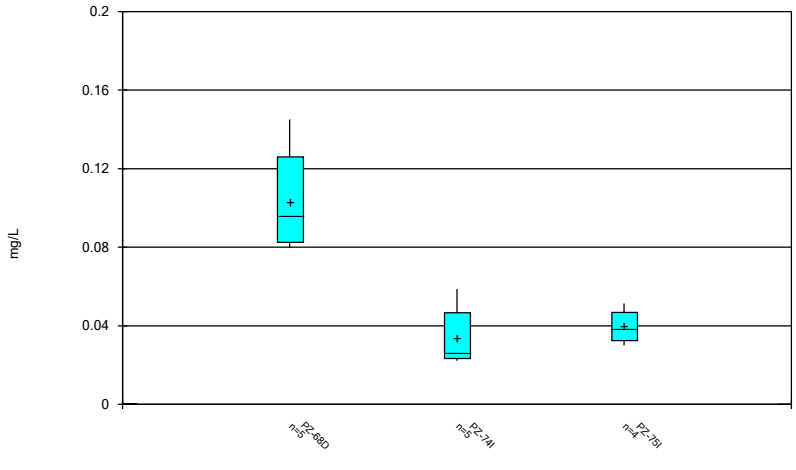
Box & Whiskers Plot



Constituent: Barium Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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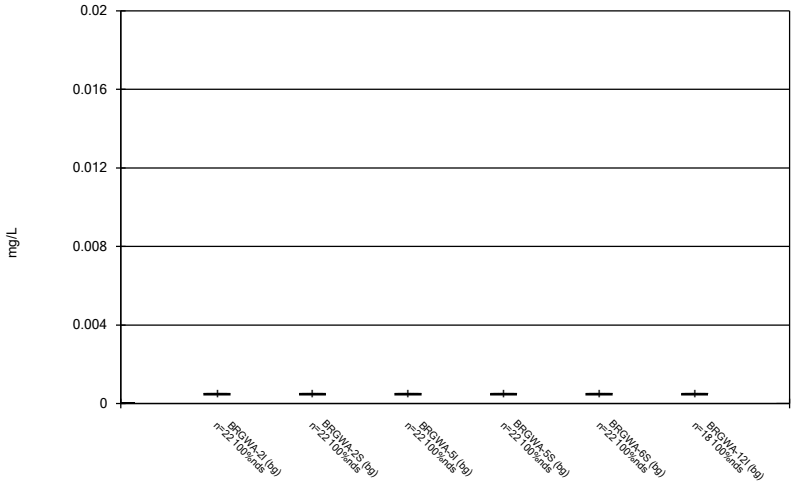
Box & Whiskers Plot



Constituent: Barium Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

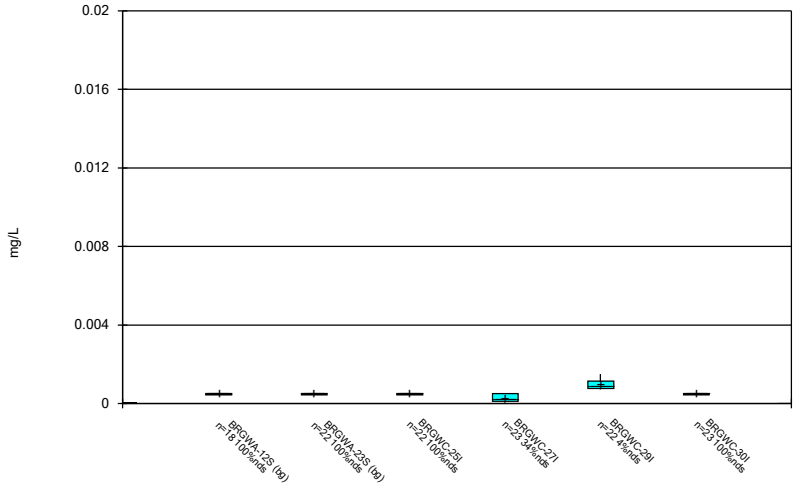


Constituent: Beryllium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

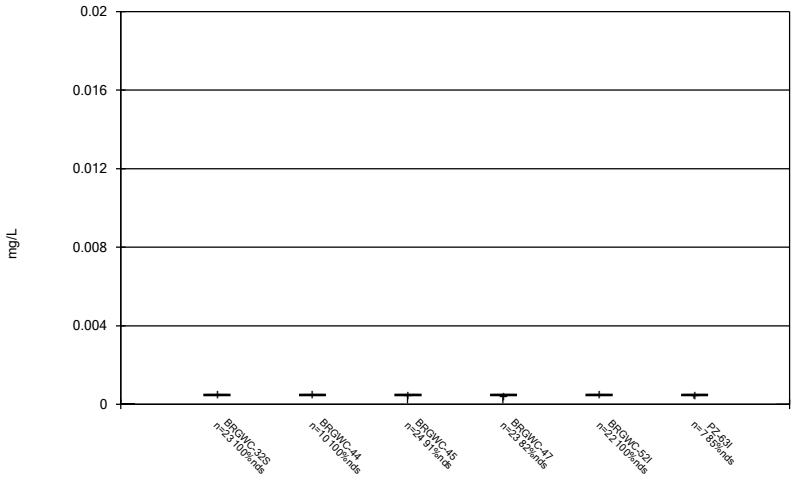


Constituent: Beryllium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

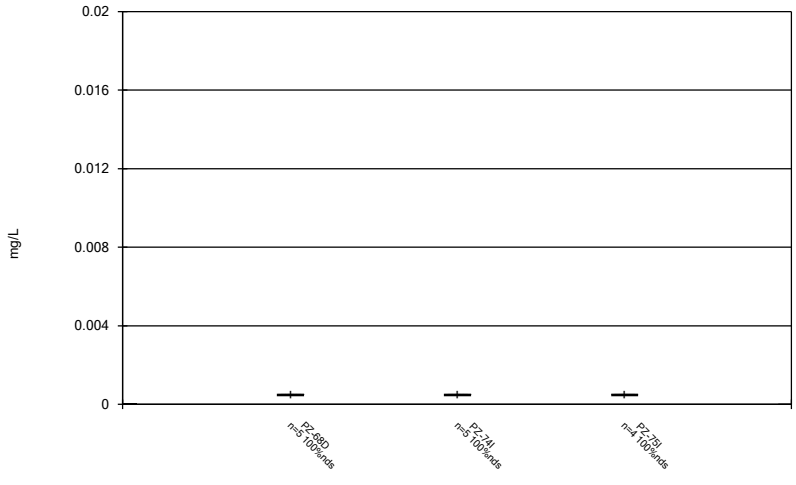


Constituent: Beryllium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

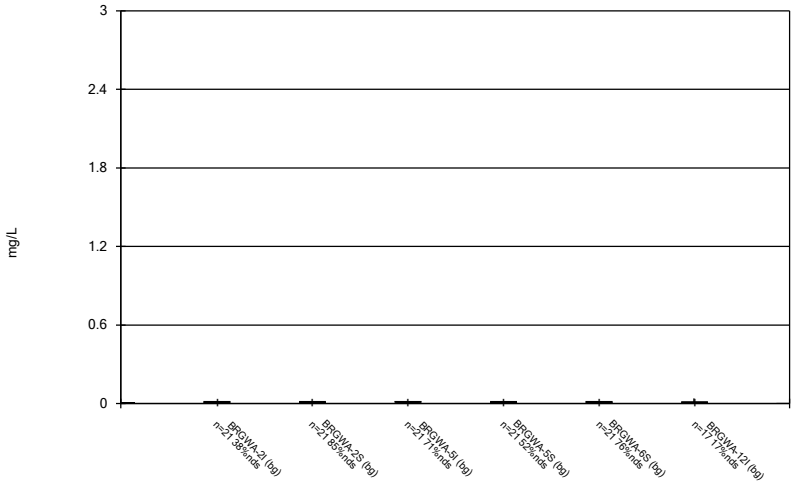


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

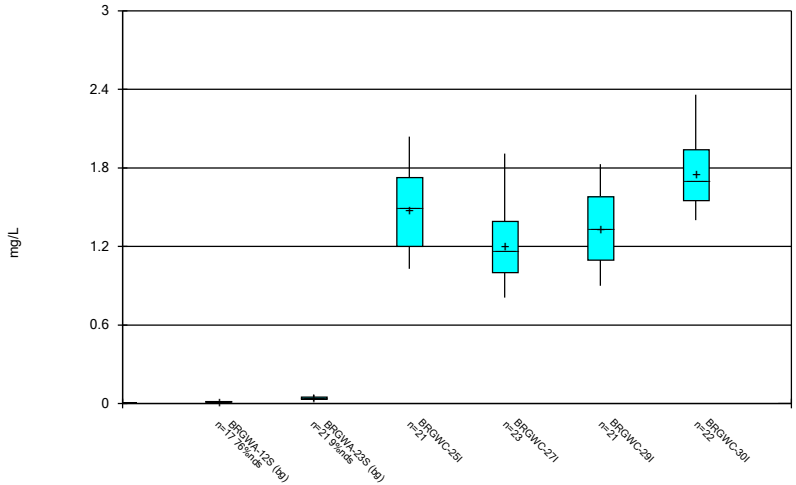


Constituent: Boron Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

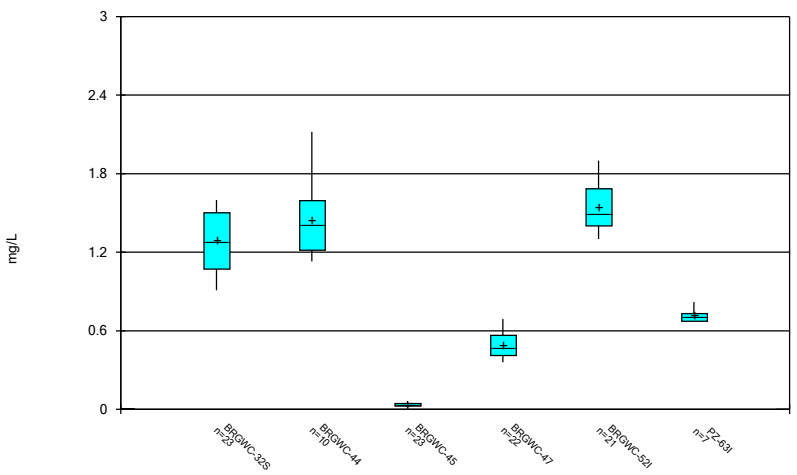


Constituent: Boron Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

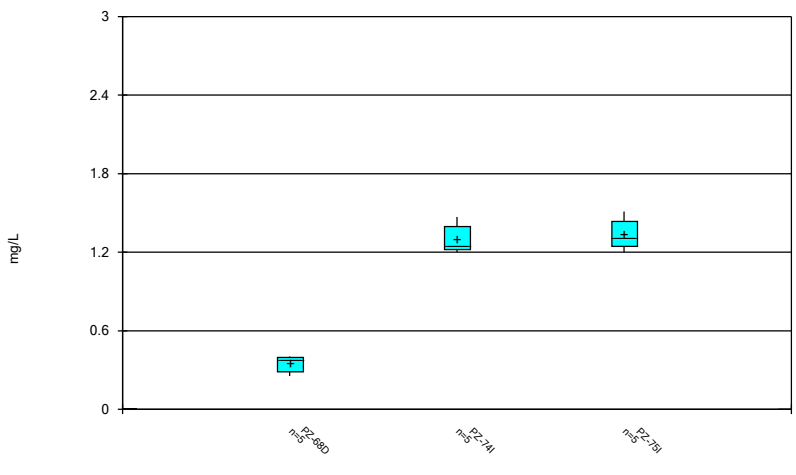


Constituent: Boron Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

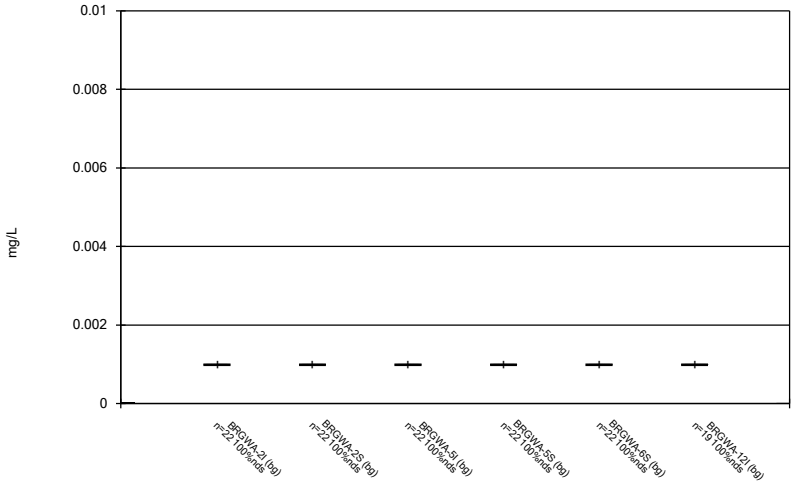


Constituent: Boron Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

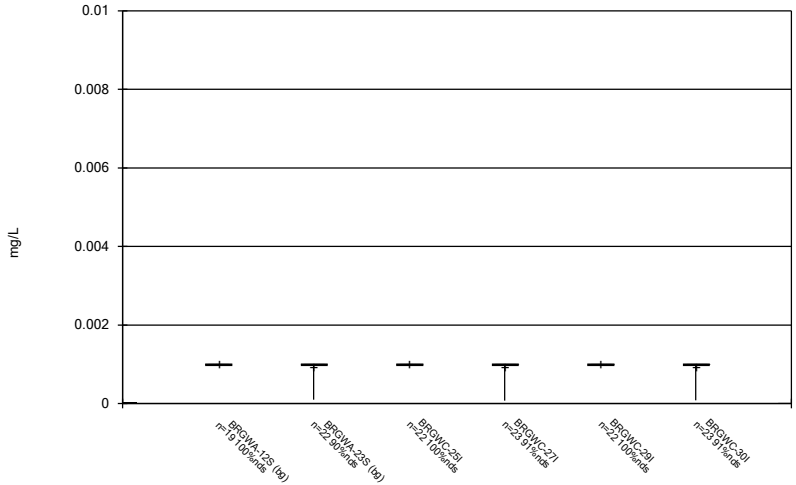


Constituent: Cadmium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

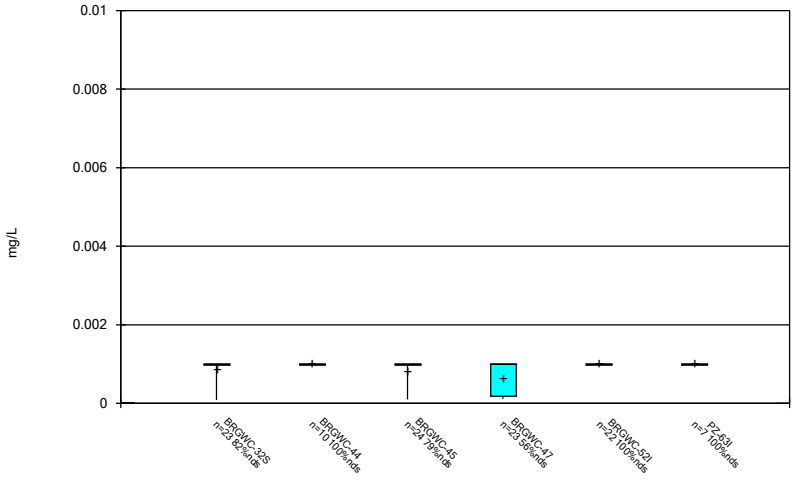


Constituent: Cadmium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

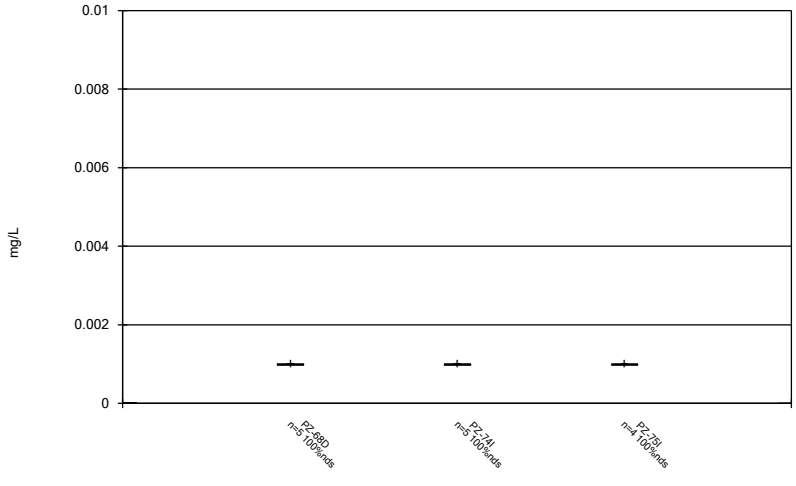


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

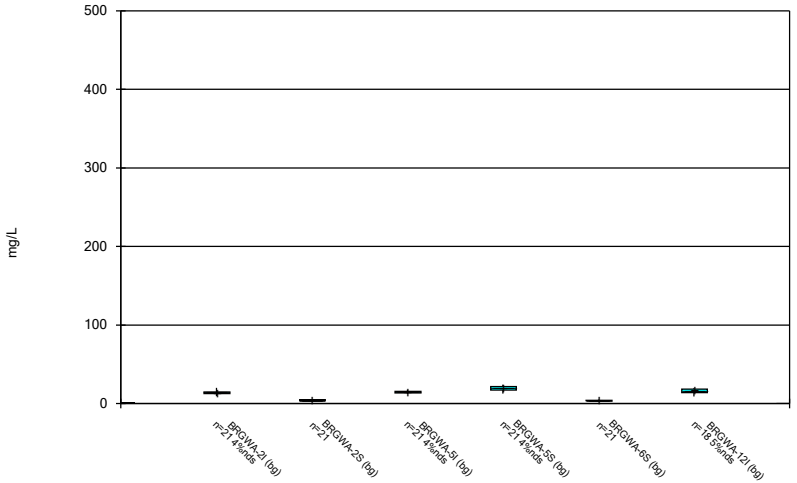


Constituent: Cadmium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

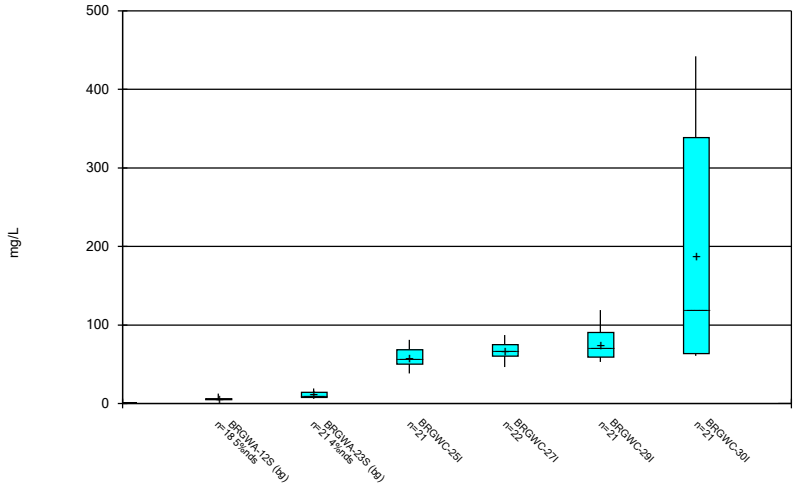


Constituent: Calcium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

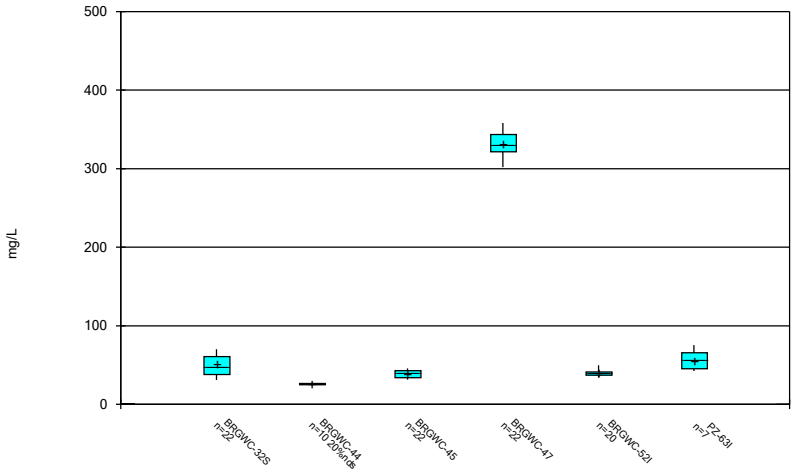


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

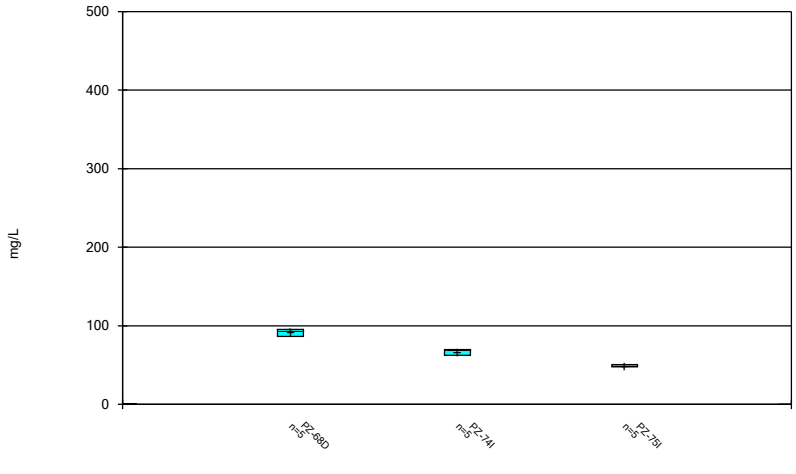


Constituent: Calcium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

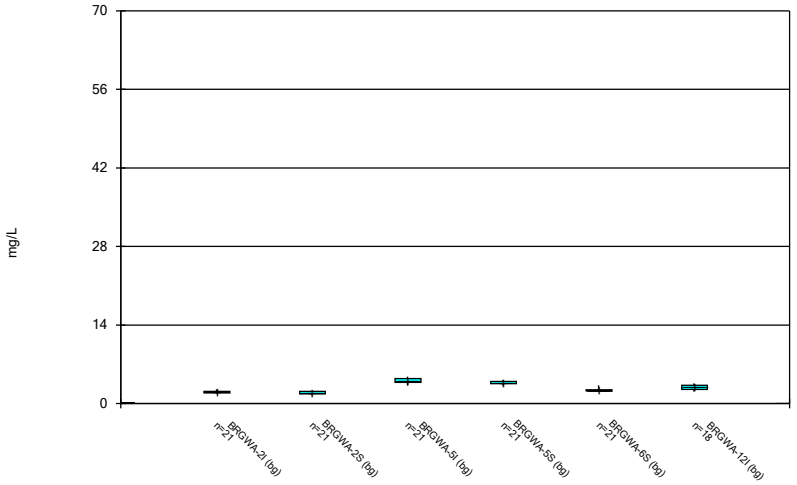


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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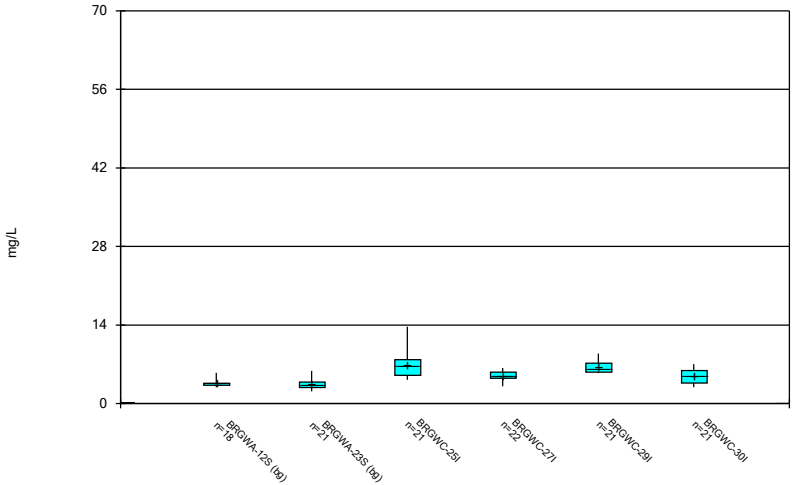
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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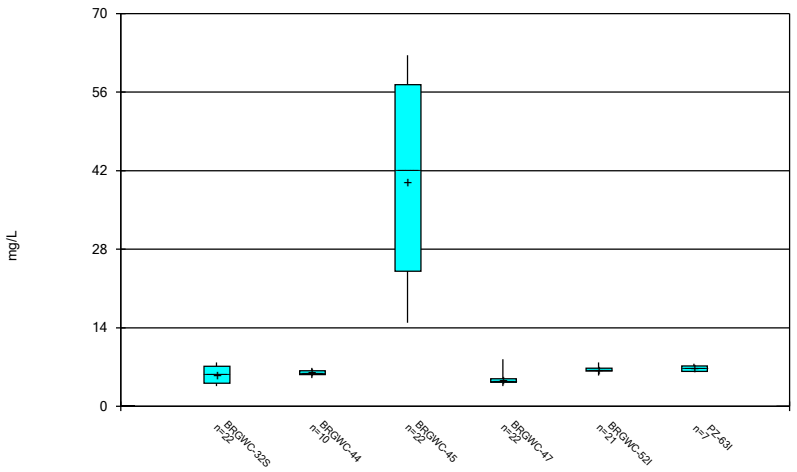
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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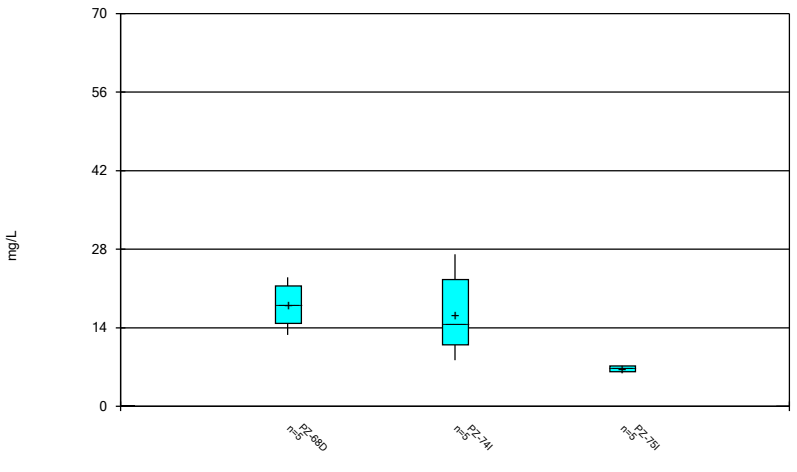
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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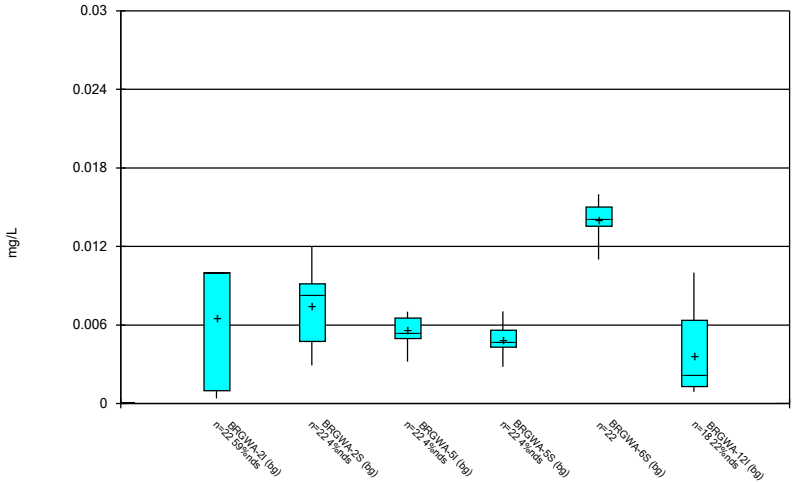
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

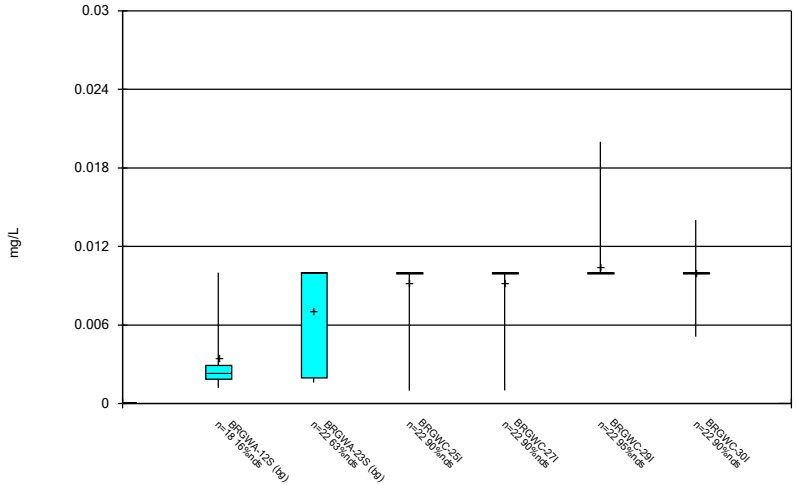


Constituent: Chromium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

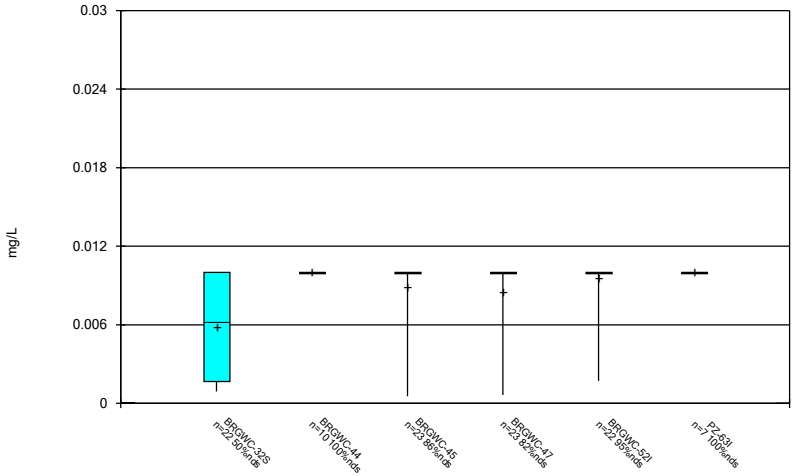


Constituent: Chromium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

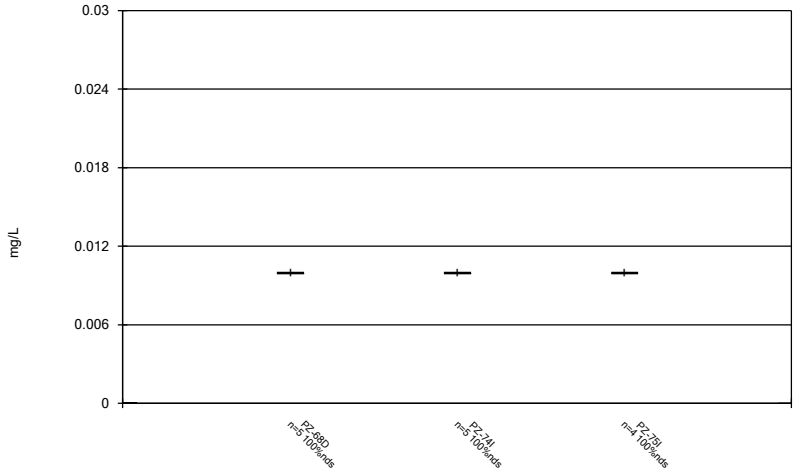


Constituent: Chromium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

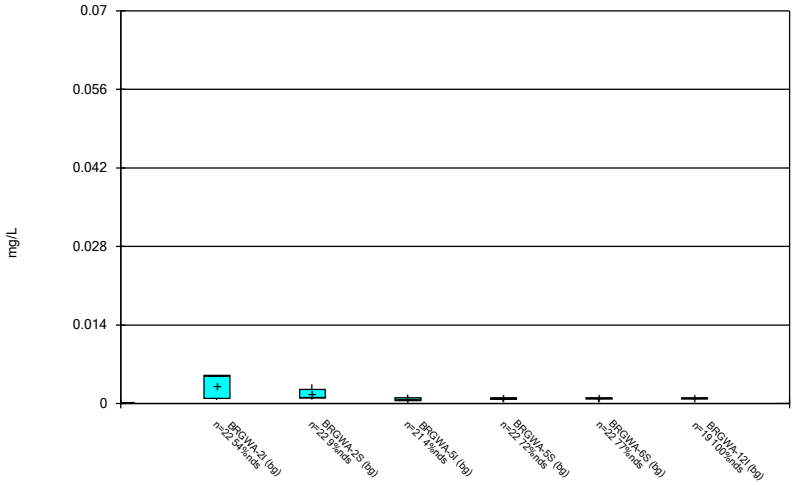


Constituent: Chromium Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

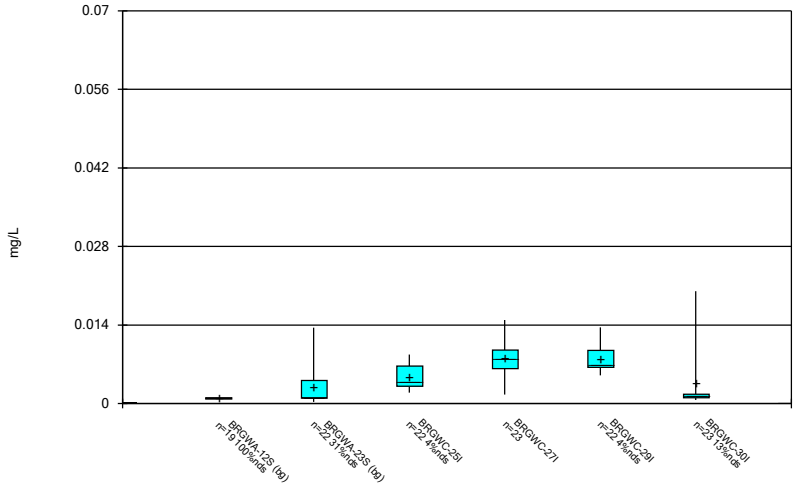


Constituent: Cobalt Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

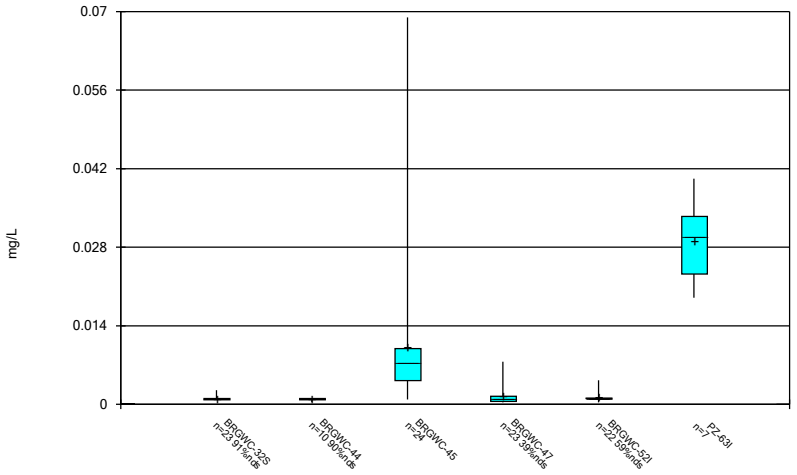


Constituent: Cobalt Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

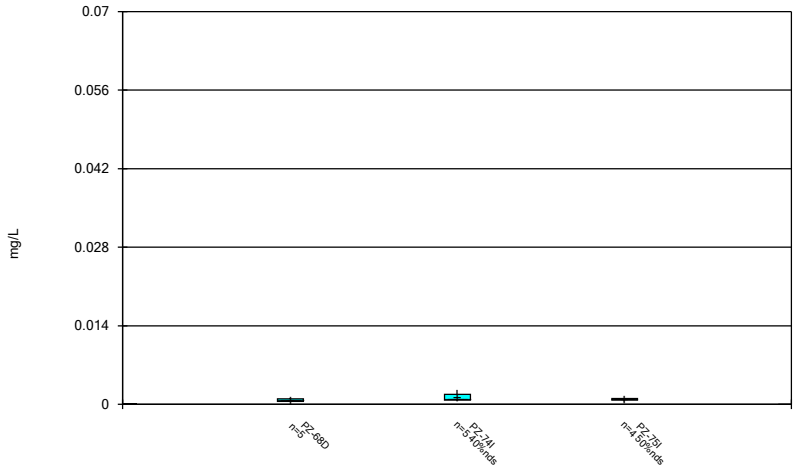


Constituent: Cobalt Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

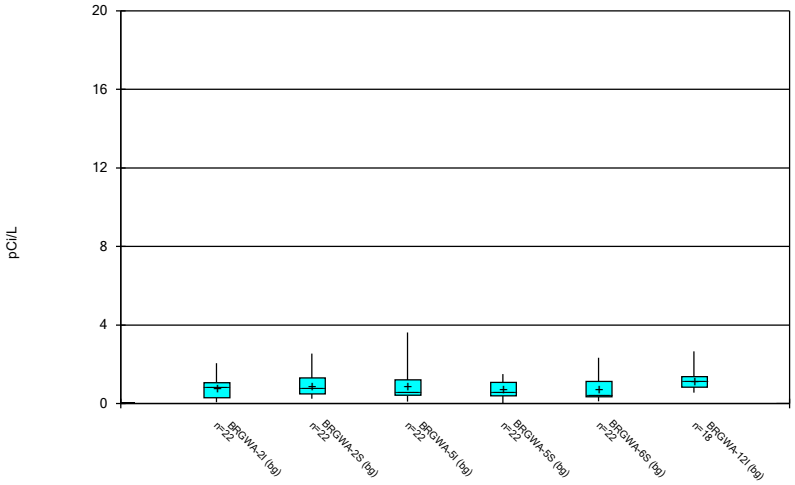


Constituent: Cobalt Analysis Run 5/20/2025 3:09 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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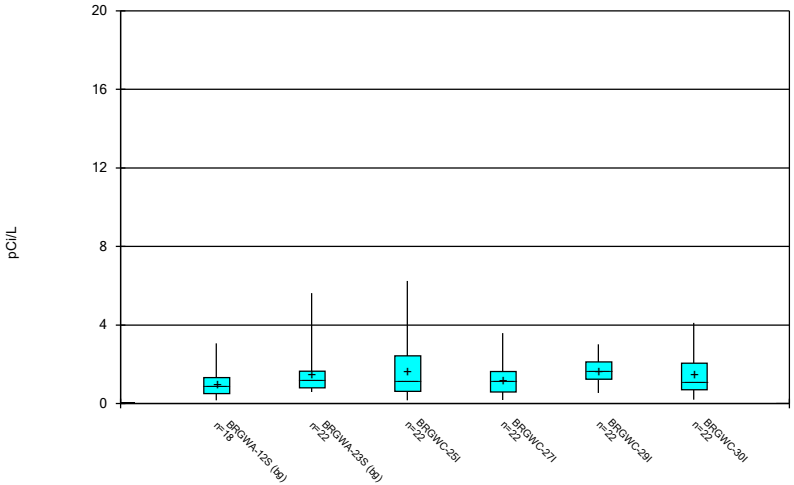
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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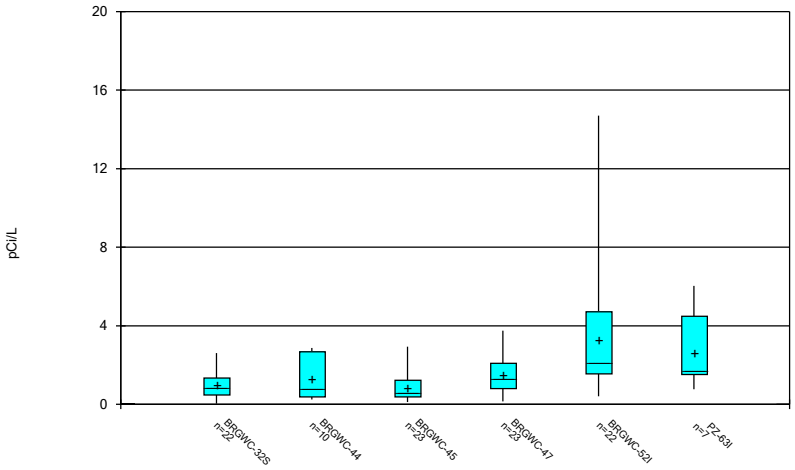
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

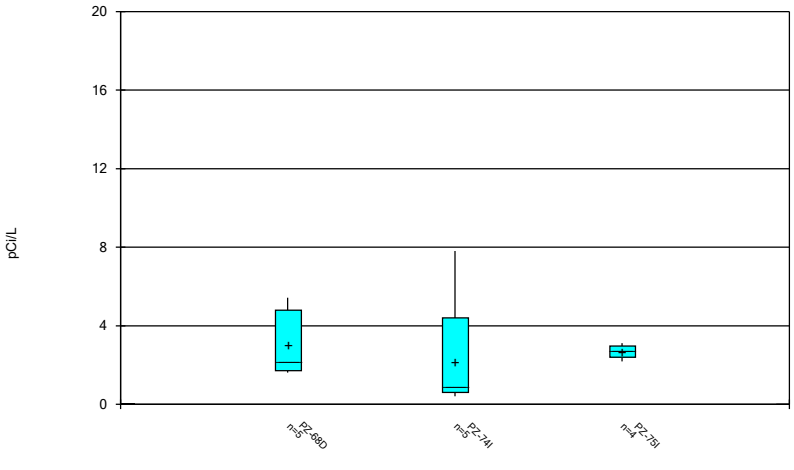
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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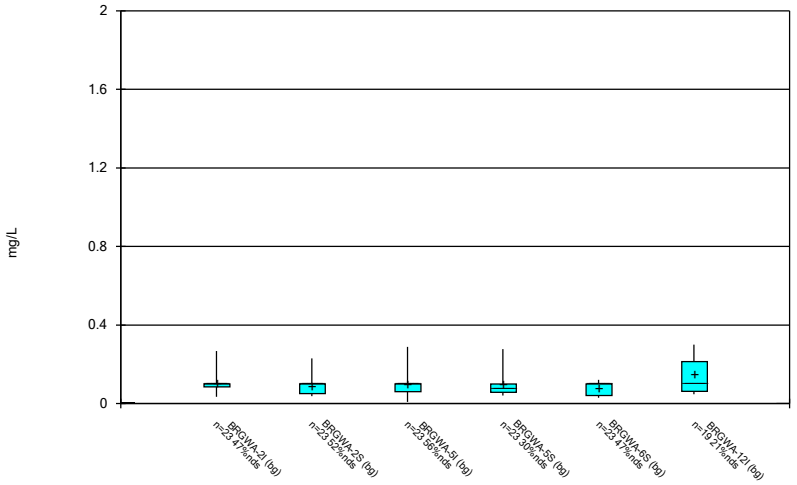
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:09 PM
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

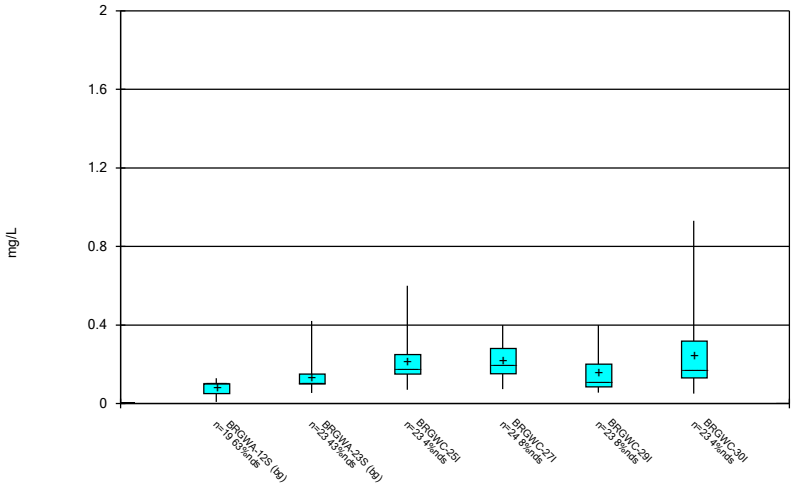


Constituent: Fluoride Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

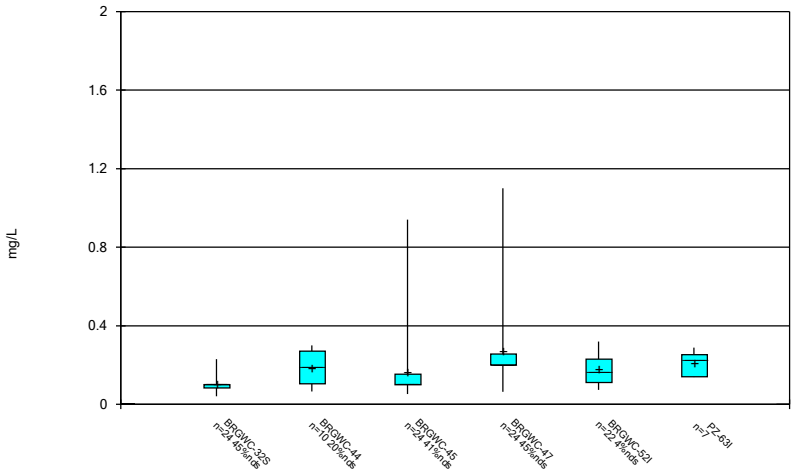


Constituent: Fluoride Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

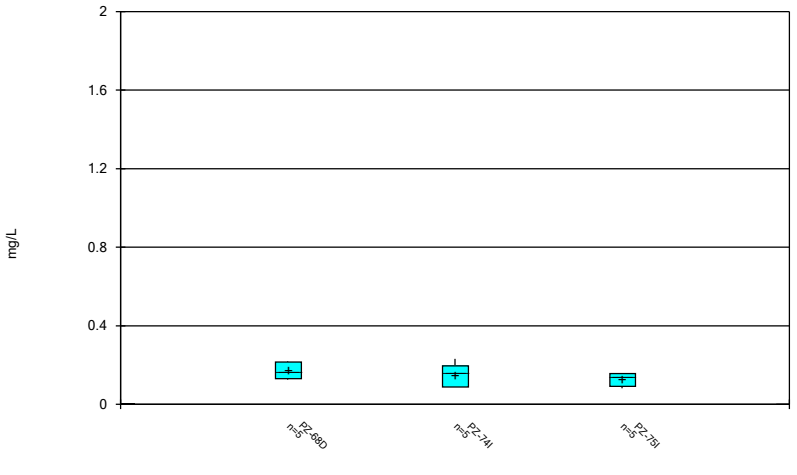


Constituent: Fluoride Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

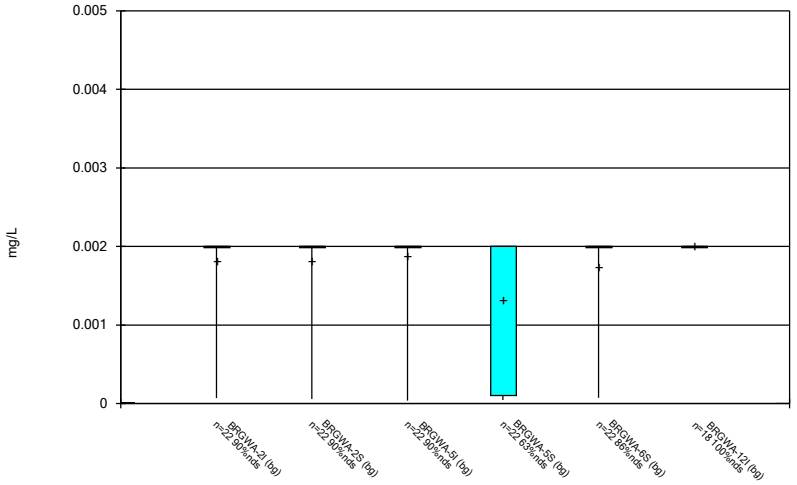


Constituent: Fluoride Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

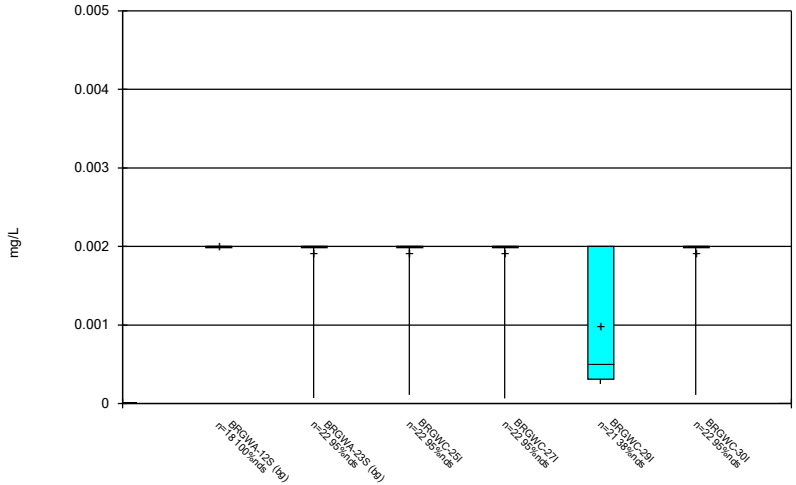


Constituent: Lead Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

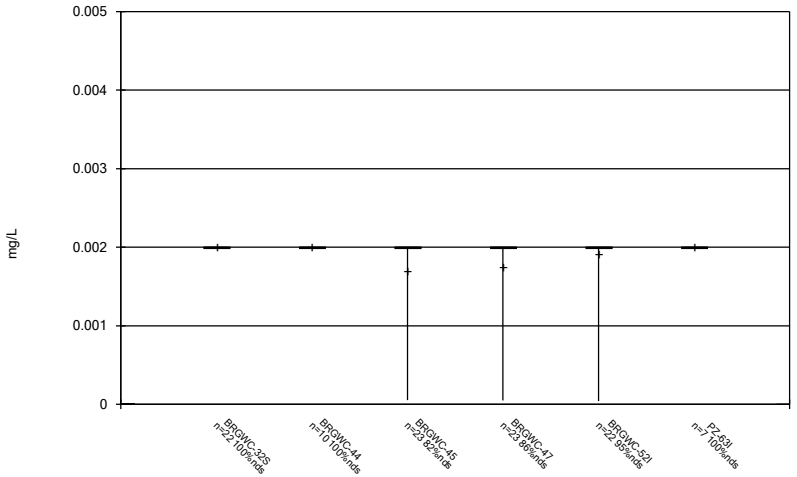


Constituent: Lead Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

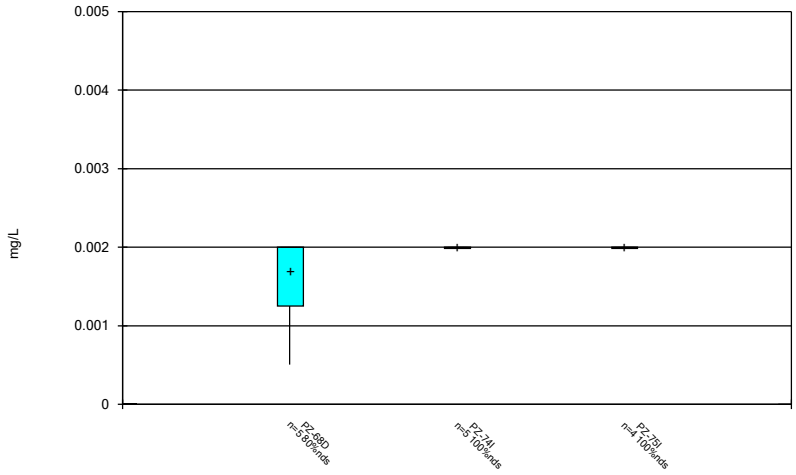


Constituent: Lead Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

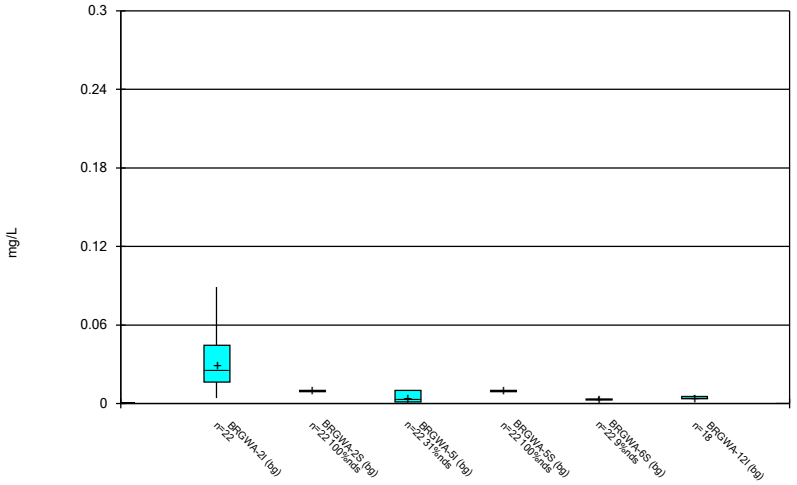


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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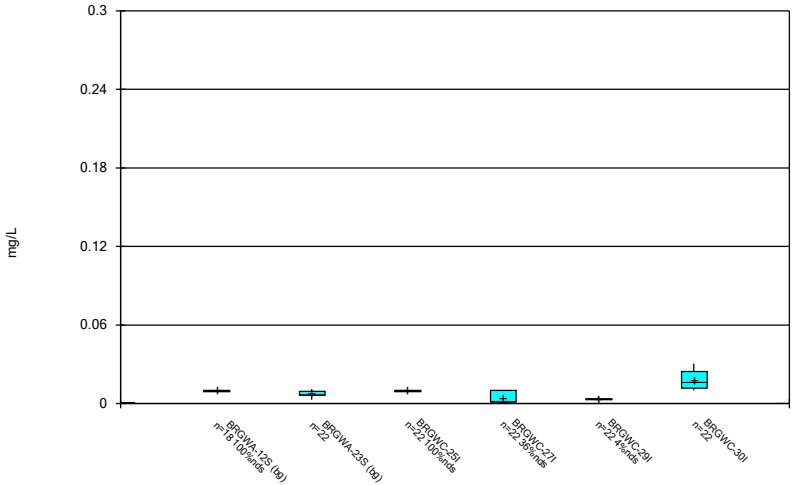


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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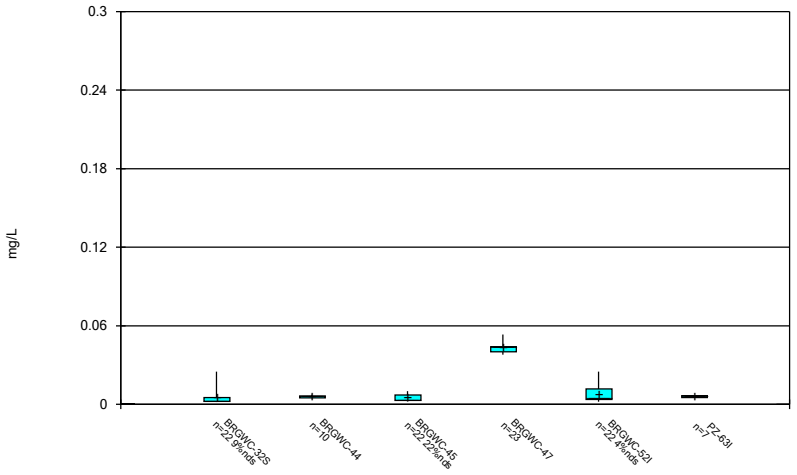


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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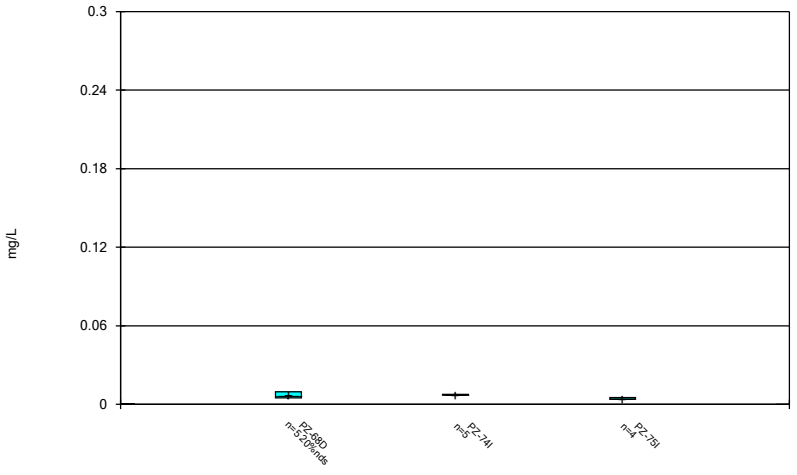


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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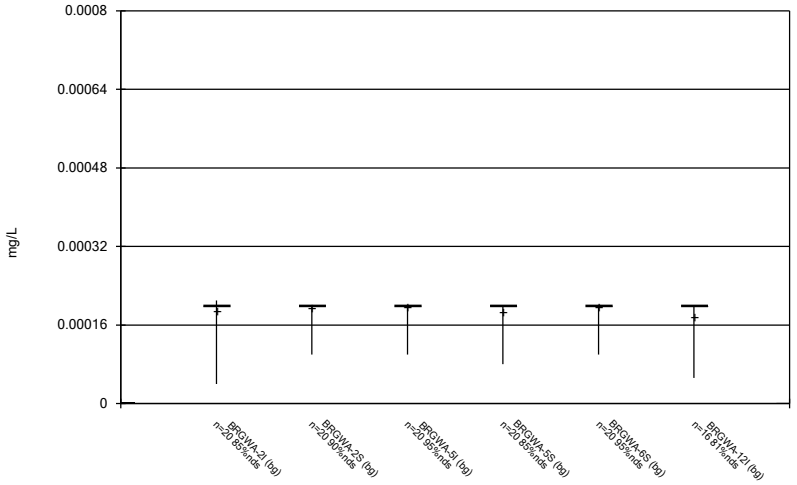


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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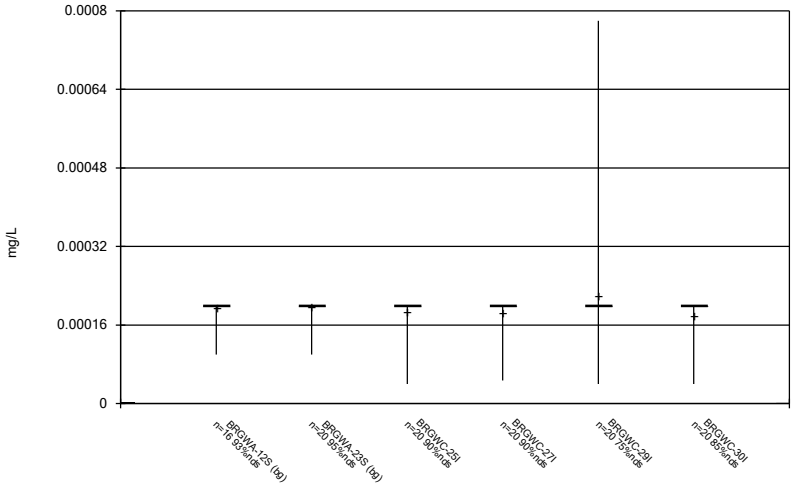


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

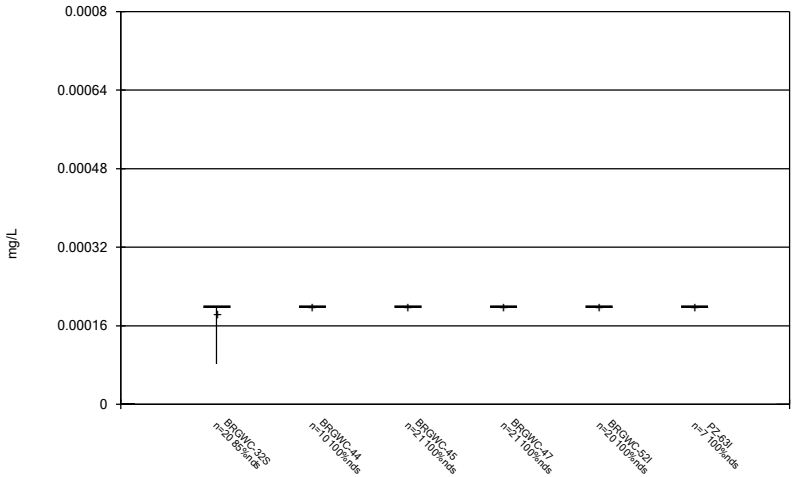


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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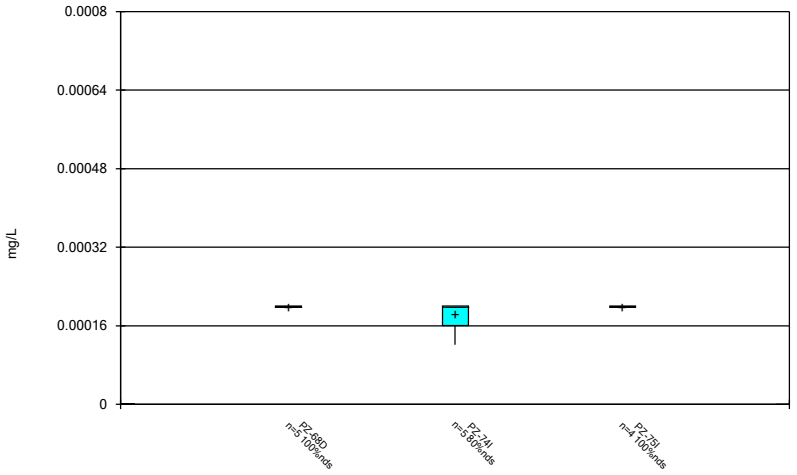


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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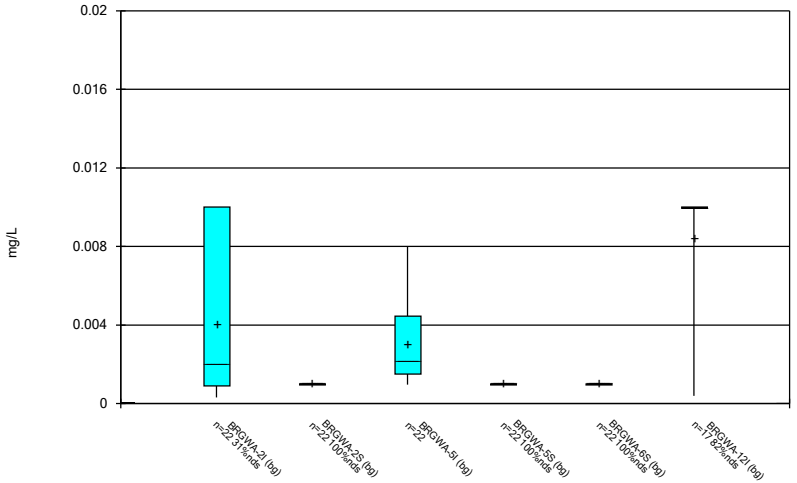


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

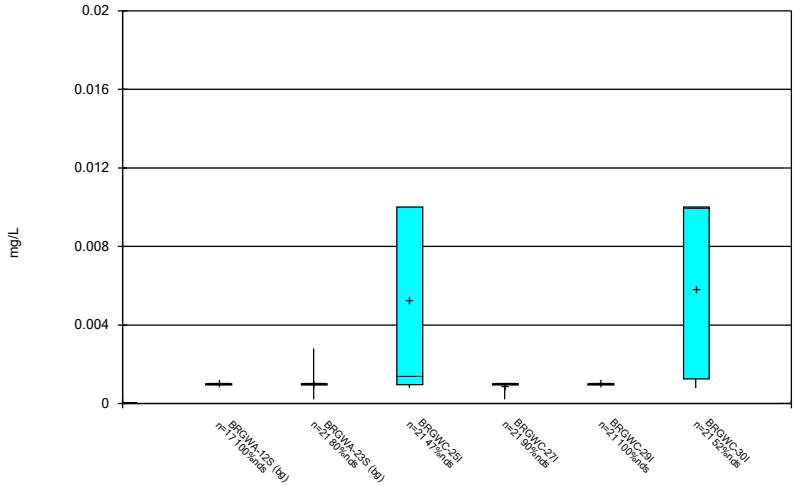


Constituent: Molybdenum Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

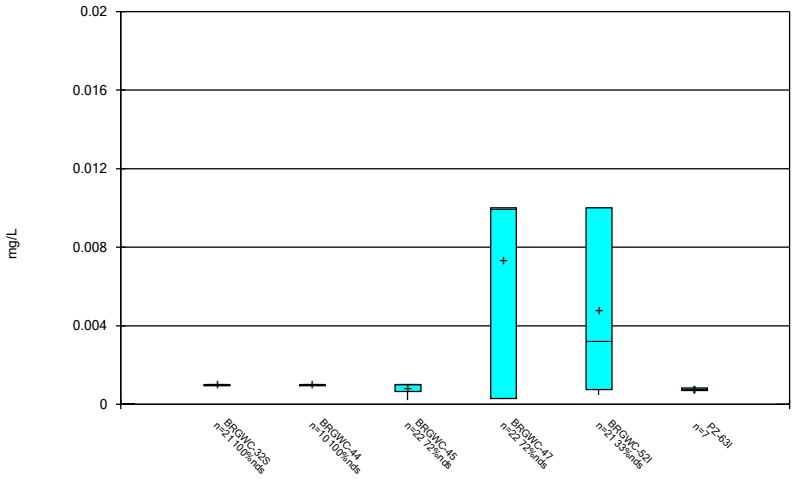


Constituent: Molybdenum Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

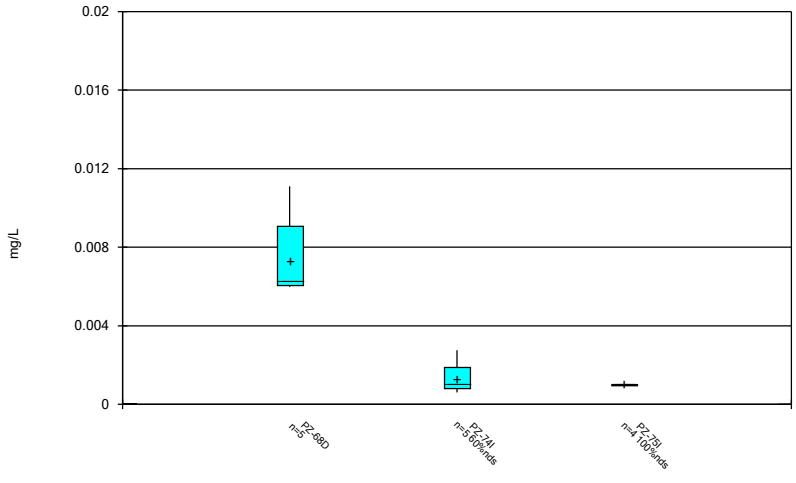


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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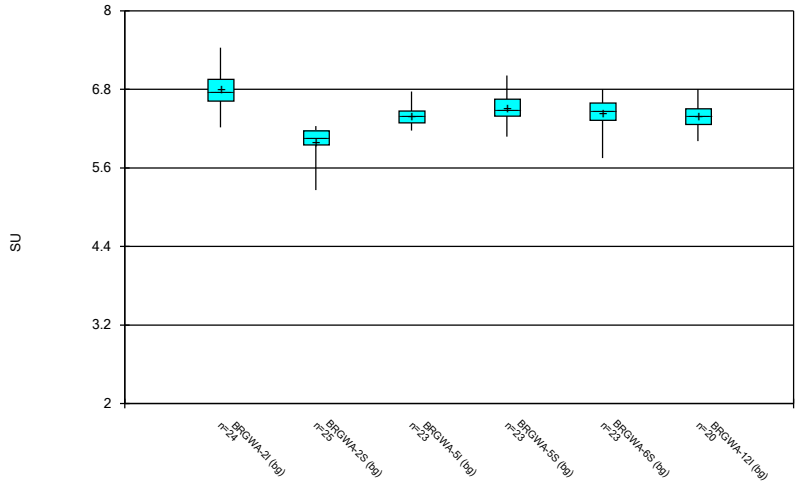


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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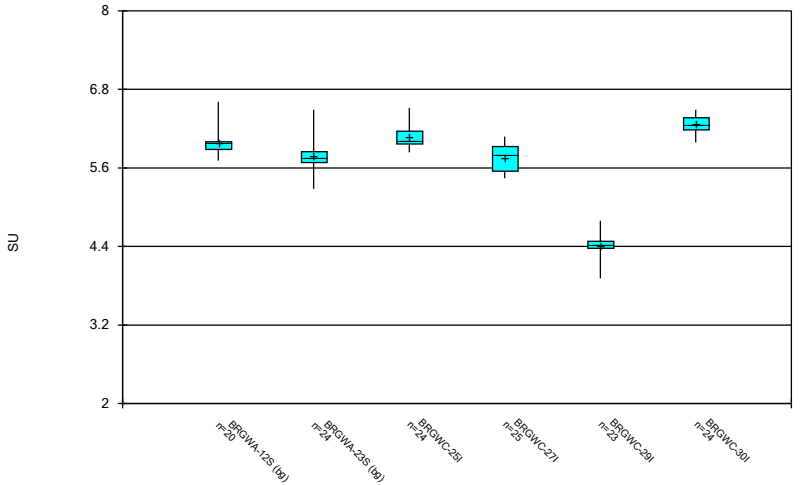


Constituent: pH, Field Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

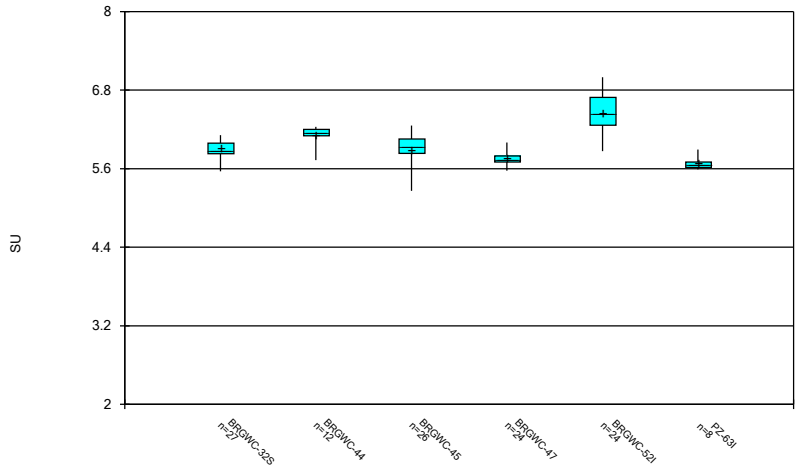


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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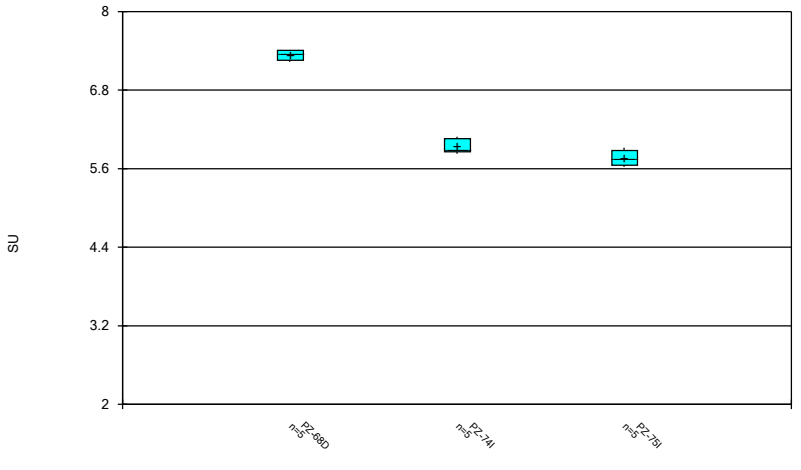


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

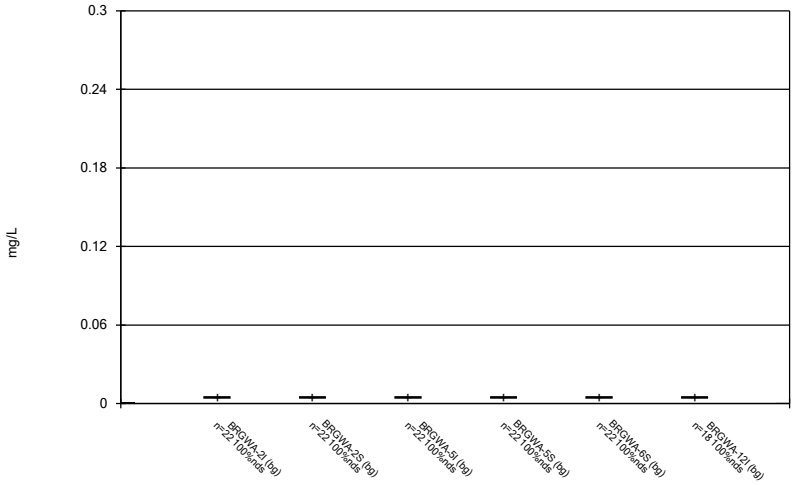


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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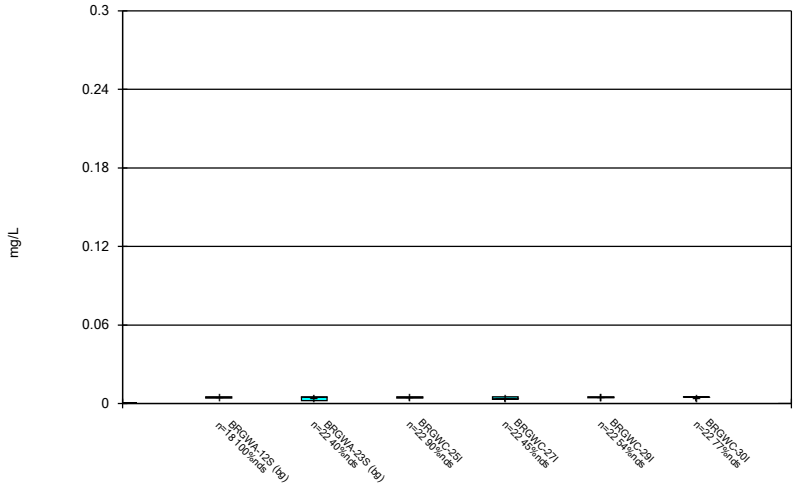


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Box & Whiskers Plot

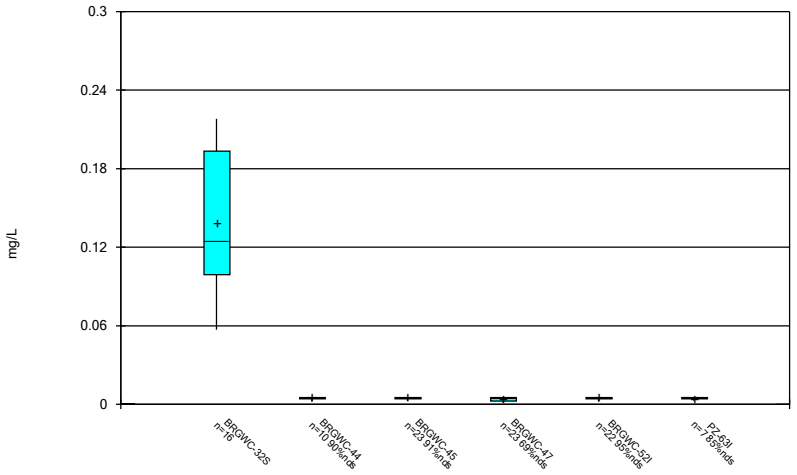


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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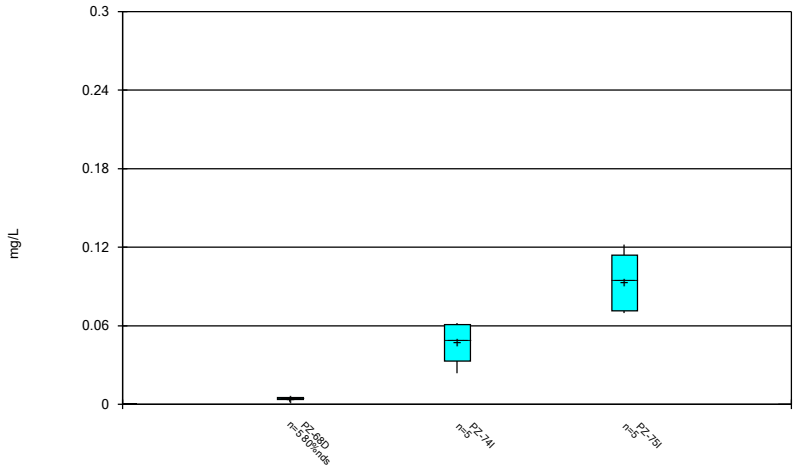


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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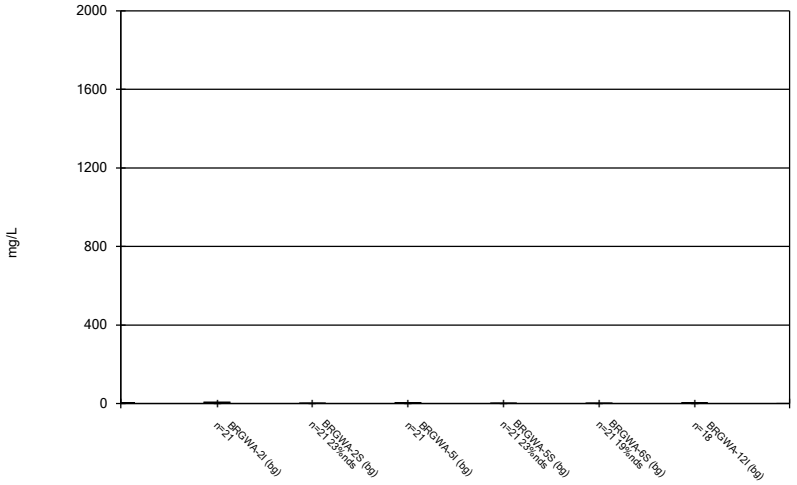


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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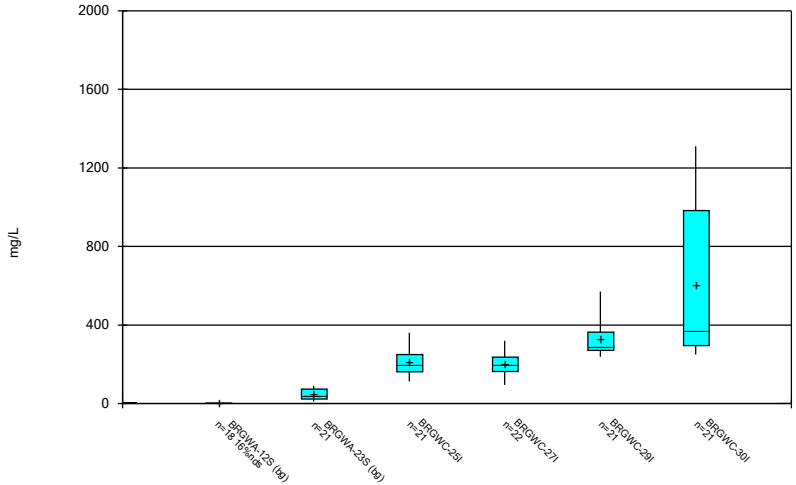


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

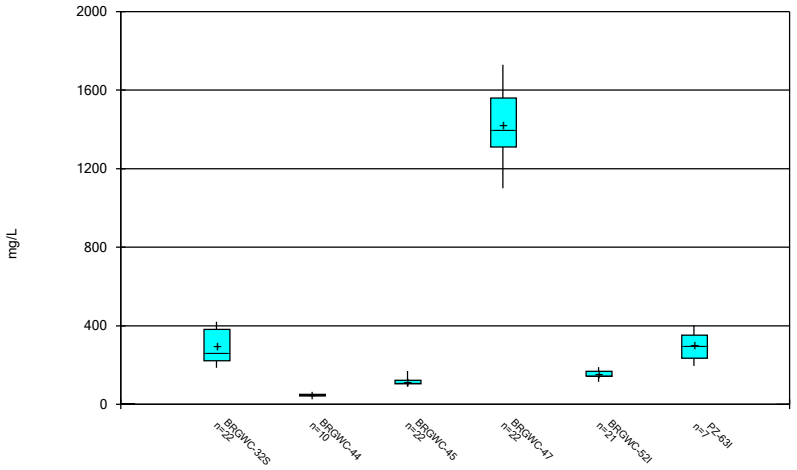


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Box & Whiskers Plot

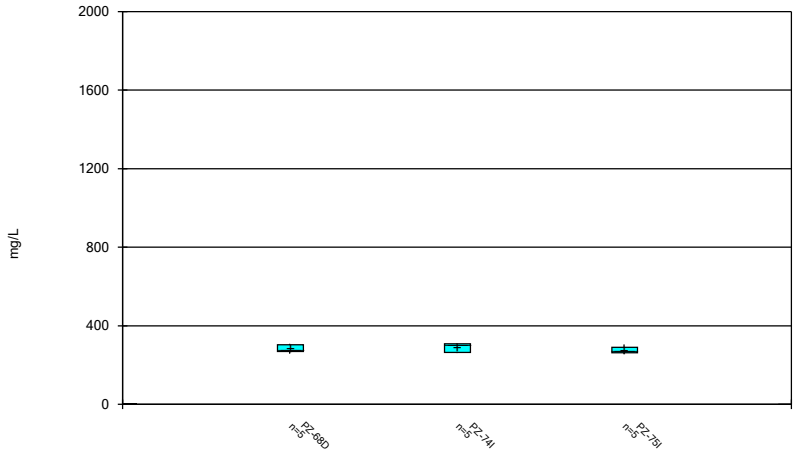


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

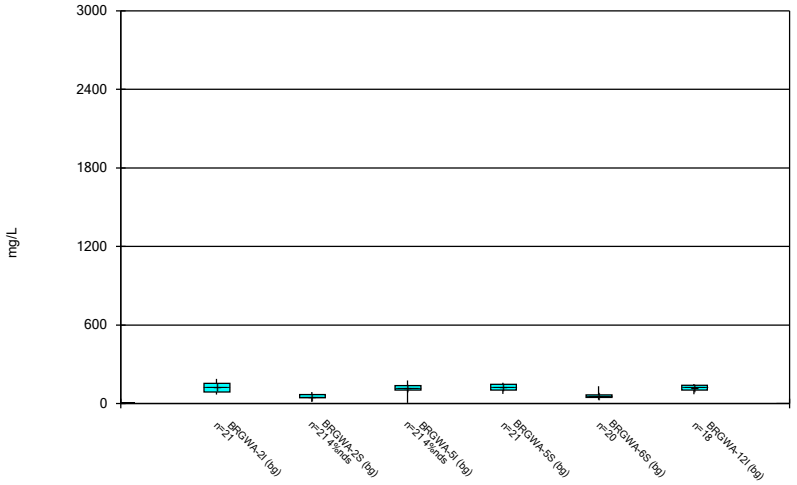


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

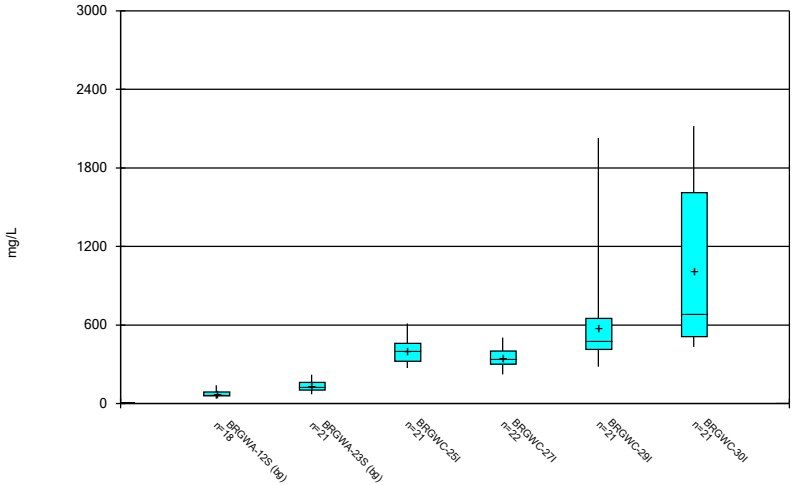


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Box & Whiskers Plot

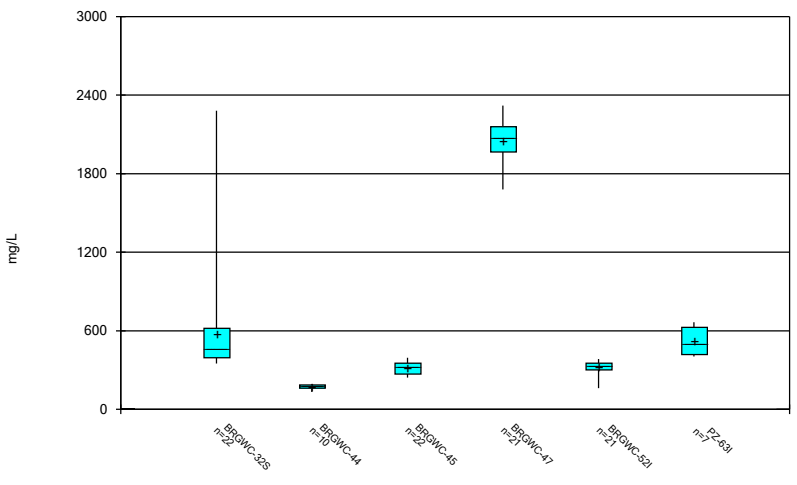


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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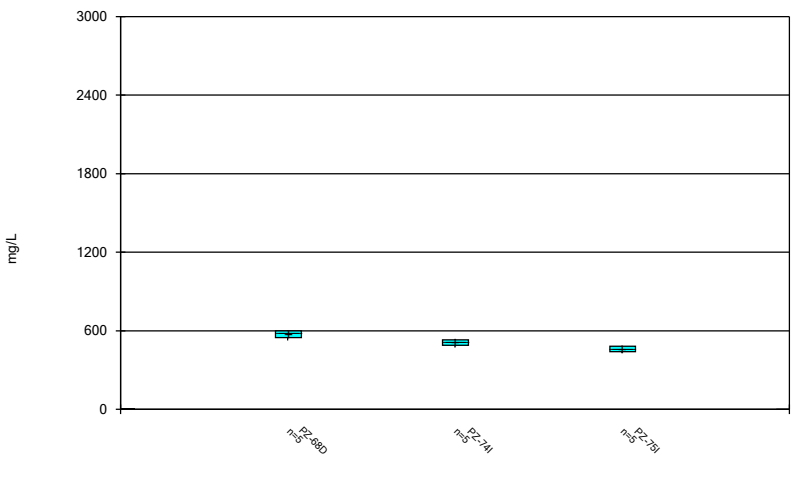


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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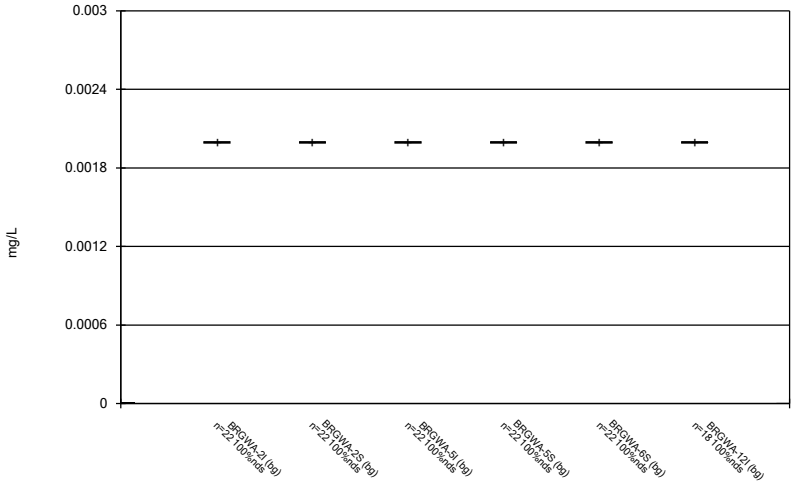


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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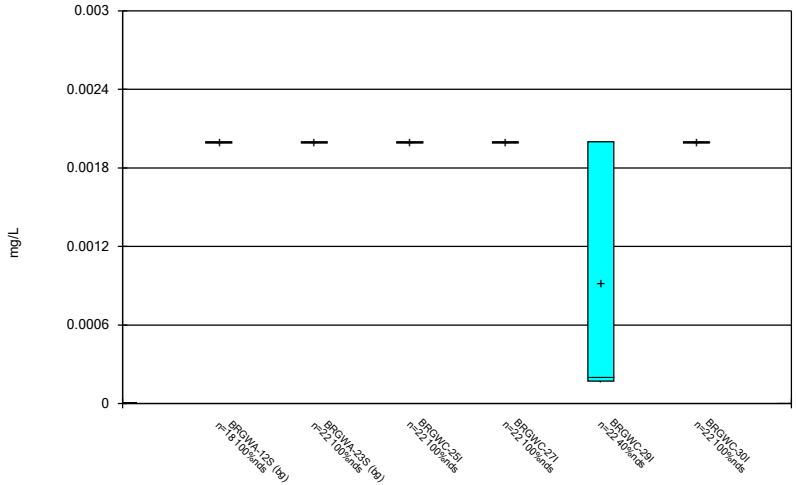


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

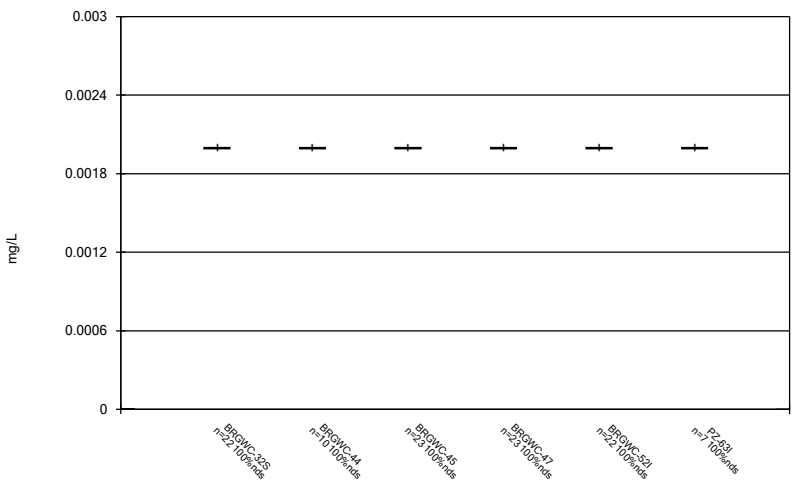


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Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot

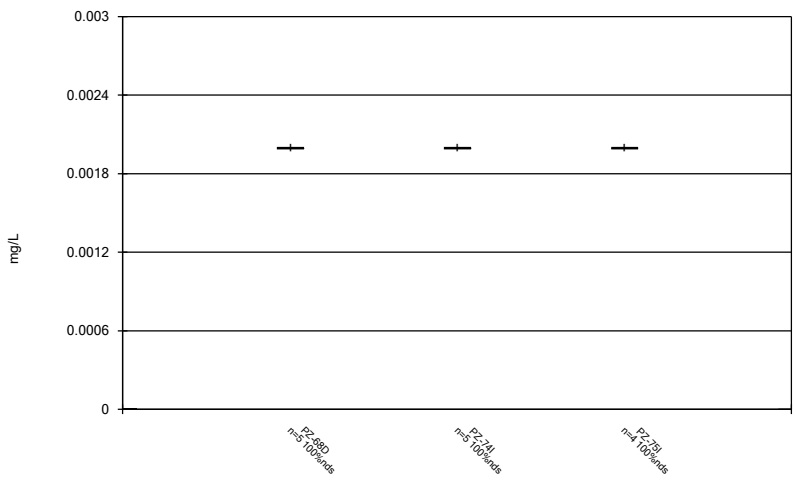


Constituent: Thallium Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/20/2025 3:10 PM

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/22/2025, 12:11 PM

	BRGWC-52I Calcium (mg/L)	BRGWA-5I Cobalt (mg/L)	BRGWC-52I Fluoride (mg/L)	BRGWC-29I Lead (mg/L)	BRGWC-45 Lithium (mg/L)	BRGWA-6S TDS (mg/L)	BRGWC-47 TDS (mg/L)
9/1/2016						299 (O)	
2/13/2018		<0.01 (O)					
2/14/2018			<0.005 (O)				
6/27/2018							31 (O)
7/31/2018				<0.25 (O)			
8/10/2018	410 (O)		1.6 (O)				

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:18 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	2/19/2025	1.63	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	2/19/2025	1.02	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	2/19/2025	1.56	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	2/19/2025	1.92	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	2/19/2025	1.05	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-44	0.068	n/a	2/19/2025	1.13	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	2/18/2025	0.682	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	2/19/2025	1.67	Yes	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	2/19/2025	73	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	2/19/2025	46.4	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	2/19/2025	119	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	2/19/2025	442	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	2/19/2025	37.7	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-44	24	n/a	2/19/2025	24.5	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	2/19/2025	44.3	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	2/18/2025	322	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	2/19/2025	40.1	Yes	162	n/a	n/a	3.704	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	2/19/2025	12.5	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	2/19/2025	8.25	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-44	5.8	n/a	2/19/2025	6.18	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	2/19/2025	21.2	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	2/19/2025	6.43	Yes	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
pH, Field (SU)	BRGWC-27I	7.032	5.543	2/19/2025	5.44	Yes	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-29I	7.032	5.543	2/19/2025	3.91	Yes	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	2/19/2025	204	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	2/19/2025	134	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	2/19/2025	346	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	2/19/2025	1310	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	2/19/2025	196	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	2/19/2025	169	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	2/18/2025	1340	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	2/19/2025	149	Yes	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
TDS (mg/L)	BRGWC-25I	183	n/a	2/19/2025	419	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-27I	183	n/a	2/19/2025	222	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-29I	183	n/a	2/19/2025	519	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-30I	183	n/a	2/19/2025	2120	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-32S	183	n/a	2/19/2025	351	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-45	183	n/a	2/19/2025	348	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-47	183	n/a	2/18/2025	1960	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	BRGWC-52I	183	n/a	2/19/2025	298	Yes	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:18 PM

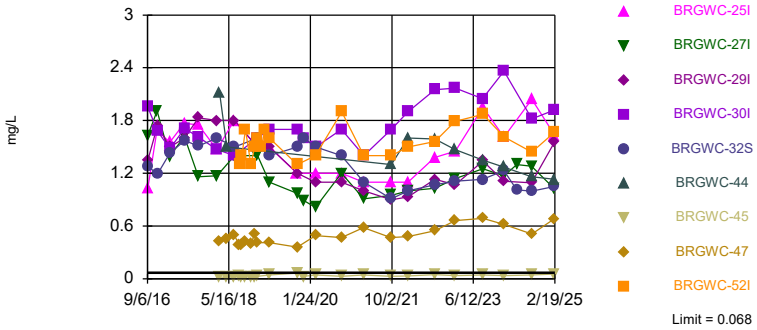
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-25I**	**0.068**	**n/a**	**2/19/2025**	**1.63**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-27I**	**0.068**	**n/a**	**2/19/2025**	**1.02**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-29I**	**0.068**	**n/a**	**2/19/2025**	**1.56**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-30I**	**0.068**	**n/a**	**2/19/2025**	**1.92**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-32S**	**0.068**	**n/a**	**2/19/2025**	**1.05**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-44**	**0.068**	**n/a**	**2/19/2025**	**1.13**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-45	0.068	n/a	2/19/2025	0.0537	No	160	n/a	n/a	53.75	n/a	n/a	0.00007641	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-47**	**0.068**	**n/a**	**2/18/2025**	**0.682**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-52I**	**0.068**	**n/a**	**2/19/2025**	**1.67**	**Yes**	**160**	**n/a**	**n/a**	**53.75**	**n/a**	**n/a**	**0.00007641**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-25I**	**24**	**n/a**	**2/19/2025**	**73**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-27I**	**24**	**n/a**	**2/19/2025**	**46.4**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-29I**	**24**	**n/a**	**2/19/2025**	**119**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-30I**	**24**	**n/a**	**2/19/2025**	**442**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-32S**	**24**	**n/a**	**2/19/2025**	**37.7**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-44**	**24**	**n/a**	**2/19/2025**	**24.5**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-45**	**24**	**n/a**	**2/19/2025**	**44.3**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-47**	**24**	**n/a**	**2/18/2025**	**322**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-52I**	**24**	**n/a**	**2/19/2025**	**40.1**	**Yes**	**162**	**n/a**	**n/a**	**3.704**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-25I**	**5.8**	**n/a**	**2/19/2025**	**12.5**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-27I	5.8	n/a	2/19/2025	3.08	No	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-29I**	**5.8**	**n/a**	**2/19/2025**	**8.25**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-30I	5.8	n/a	2/19/2025	2.9	No	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	2/19/2025	3.9	No	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-44**	**5.8**	**n/a**	**2/19/2025**	**6.18**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-45**	**5.8**	**n/a**	**2/19/2025**	**21.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-47	5.8	n/a	2/18/2025	4.54	No	162	n/a	n/a	0	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-52I**	**5.8**	**n/a**	**2/19/2025**	**6.43**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	2/19/2025	0.281	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	2/19/2025	0.0997J	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	2/19/2025	0.129	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	2/19/2025	0.194	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	2/19/2025	0.0774J	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-44	0.42	n/a	2/19/2025	0.127	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	2/19/2025	0.142	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	2/18/2025	0.189	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	2/19/2025	0.152	No	176	n/a	n/a	45.45	n/a	n/a	0.00006371	NP Inter (normality) 1 of 2
pH, Field (SU)	BRGWC-25I	7.032	5.543	2/19/2025	6.13	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	**BRGWC-27I**	**7.032**	**5.543**	**2/19/2025**	**5.44**	**Yes**	**182**	**6.288**	**0.3832**	**0**	**None**	**No**	**0.0003761**	**Param Inter 1 of 2**
pH, Field (SU)	**BRGWC-29I**	**7.032**	**5.543**	**2/19/2025**	**3.91**	**Yes**	**182**	**6.288**	**0.3832**	**0**	**None**	**No**	**0.0003761**	**Param Inter 1 of 2**
pH, Field (SU)	BRGWC-30I	7.032	5.543	2/19/2025	6.37	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-32S	7.032	5.543	2/19/2025	6.11	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-44	7.032	5.543	2/19/2025	6.2	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-45	7.032	5.543	2/19/2025	5.78	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-47	7.032	5.543	2/18/2025	5.73	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	BRGWC-52I	7.032	5.543	2/19/2025	6.26	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
pH, Field (SU)	PZ-63I	7.032	5.543	2/19/2025	5.59	No	182	6.288	0.3832	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	**BRGWC-25I**	**89**	**n/a**	**2/19/2025**	**204**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-27I**	**89**	**n/a**	**2/19/2025**	**134**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-29I**	**89**	**n/a**	**2/19/2025**	**346**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-30I**	**89**	**n/a**	**2/19/2025**	**1310**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-32S**	**89**	**n/a**	**2/19/2025**	**196**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-44	89	n/a	2/19/2025	41.1	No	162	n/a	n/a	10.49	n/a	n/a	0.00007482	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-45**	**89**	**n/a**	**2/19/2025**	**169**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-47**	**89**	**n/a**	**2/18/2025**	**1340**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-52I**	**89**	**n/a**	**2/19/2025**	**149**	**Yes**	**162**	**n/a**	**n/a**	**10.49**	**n/a**	**n/a**	**0.00007482**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**BRGWC-25I**	**183**	**n/a**	**2/19/2025**	**419**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-27I**	**183**	**n/a**	**2/19/2025**	**222**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-29I**	**183**	**n/a**	**2/19/2025**	**519**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-30I**	**183**	**n/a**	**2/19/2025**	**2120**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-32S**	**183**	**n/a**	**2/19/2025**	**351**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	BRGWC-44	183	n/a	2/19/2025	131	No	161	101.2	42.11	1.242	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**BRGWC-45**	**183**	**n/a**	**2/19/2025**	**348**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-47**	**183**	**n/a**	**2/18/2025**	**1960**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-52I**	**183**	**n/a**	**2/19/2025**	**298**	**Yes**	**161**	**101.2**	**42.11**	**1.242**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

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Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-47, BRGWC-52I

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 160 background values. 53.75% NDs. Annual per-constituent alpha = 0.001527. Individual comparison alpha = 0.00007641 (1 of 2). Comparing 9 points to limit. Assumes 1 future value.

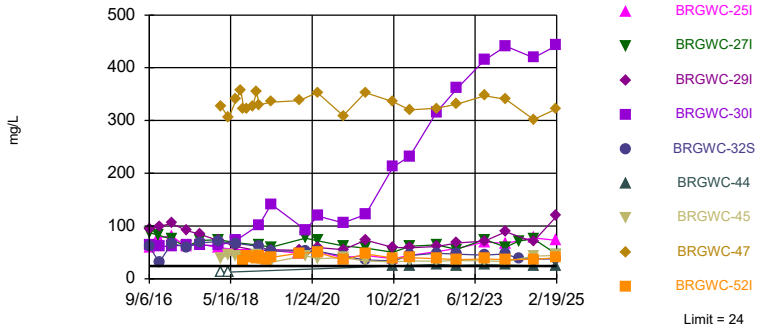
Constituent: Boron Analysis Run 5/20/2025 3:14 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-44, BRGWC-45, BRGWC-47,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 162 background values. 3.704% NDs. Annual per-constituent alpha = 0.001495. Individual comparison alpha = 0.00007482 (1 of 2). Comparing 9 points to limit. Assumes 1 future value.

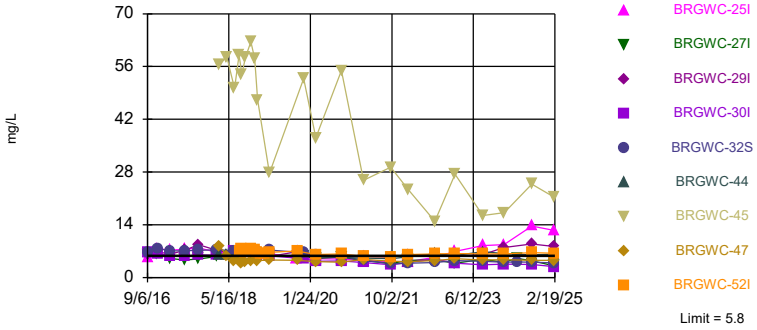
Constituent: Calcium Analysis Run 5/20/2025 3:14 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-25I, BRGWC-29I, BRGWC-44, BRGWC-45, BRGWC-52I

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 162 background values. Annual per-constituent alpha = 0.001495. Individual comparison alpha = 0.00007482 (1 of 2). Comparing 9 points to limit. Assumes 1 future value.

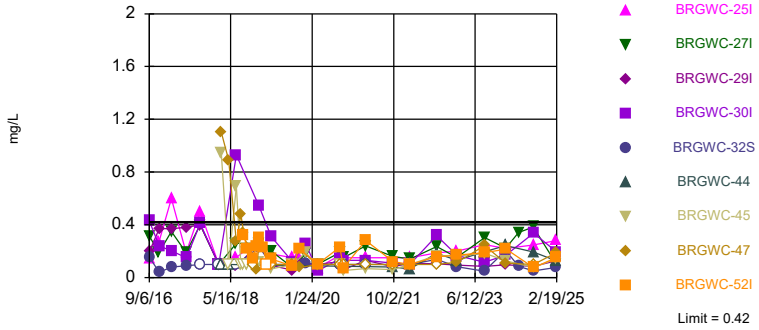
Constituent: Chloride Analysis Run 5/20/2025 3:14 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 176 background values. 45.45% NDs. Annual per-constituent alpha = 0.001273. Individual comparison alpha = 0.00006371 (1 of 2). Comparing 9 points to limit. Assumes 1 future value.

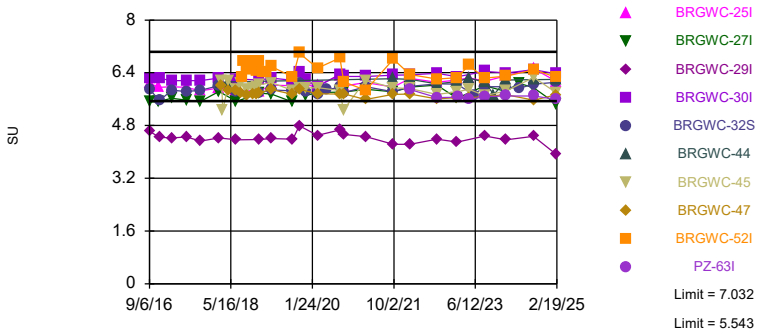
Constituent: Fluoride Analysis Run 5/20/2025 3:14 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limits: BRGWC-27I, BRGWC-29I

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=6.288, Std. Dev.=0.3832, n=182. Normality test: Chi Squared @alpha = 0.01, calculated = 5.692, critical = 14.07. Kappa = 1.942 (c=7, w=10, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0003761. Comparing 10 points to limit.

Constituent: pH, Field Analysis Run 5/20/2025 3:15 PM View: Appendix III - Interwell PLs

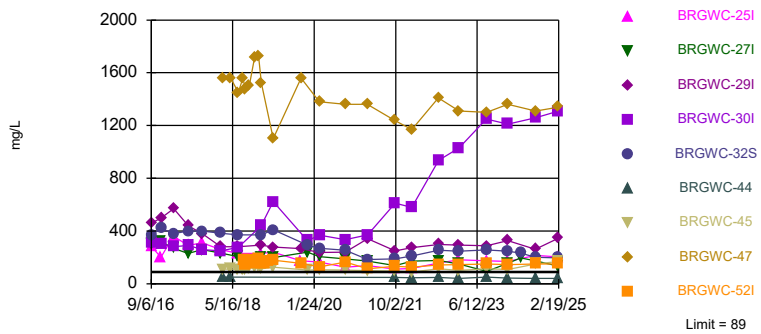
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 162 background values. 10.49% NDs. Annual per-constituent alpha = 0.001495. Individual comparison alpha = 0.00007482 (1 of 2). Comparing 9 points to limit. Assumes 1 future value.

Constituent: Sulfate Analysis Run 5/20/2025 3:15 PM View: Appendix III - Interwell PLs

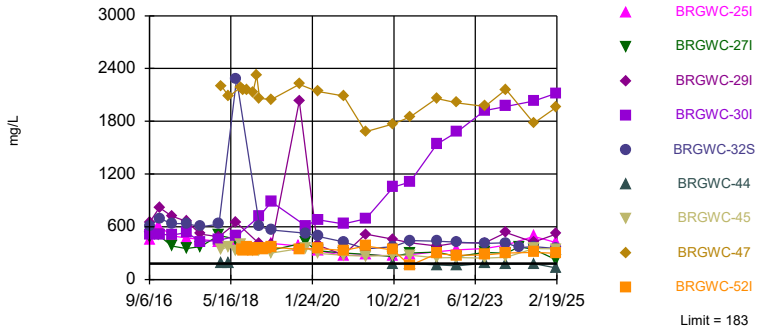
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-52I

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=101.2, Std. Dev.=42.11, n=161, 1.242% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 9.745, critical = 14.07. Kappa = 1.942 (c=7, w=10, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 9 points to limit. Assumes 1 future value.

Constituent: TDS Analysis Run 5/20/2025 3:15 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:18 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	0.0072 (J)	<0.015	<0.015	<0.015					
9/1/2016					<0.015	0.0093 (J)	<0.015		
9/6/2016								1.96	0.0362 (J)
9/8/2016									
11/15/2016		0.0085 (J)					0.0123 (J)		
11/16/2016	0.0117 (J)		0.0187 (J)	0.0109 (J)	0.0081 (J)	0.0127 (J)			
11/17/2016									0.0617
11/18/2016									
11/21/2016								1.68	
2/20/2017		0.0093 (J)	0.0066 (J)				0.0157 (J)		
2/21/2017	0.0088 (J)			<0.015	<0.015	0.0071 (J)			0.0245 (J)
2/22/2017								1.48	
6/12/2017	0.0133 (J)	<0.015	<0.015				<0.015		
6/13/2017				<0.015	<0.015				<0.015
6/14/2017						0.0078 (J)		1.71	
9/26/2017	0.0093 (J)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
9/27/2017								1.61	
2/13/2018	0.0141 (J)	<0.015	<0.015	<0.015			<0.015		
2/14/2018					<0.015	0.0068 (J)		1.47	0.0314 (J)
3/6/2018									
5/1/2018									
6/26/2018	0.012 (J)	0.0056 (J)	0.0042 (J)	<0.015	<0.015	0.008 (J)	0.0041 (J)		0.062
6/27/2018									
6/28/2018								1.4	
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.0086 (J)	0.0062 (J)	<0.015	<0.015	0.0053 (J)	0.0083 (J)	<0.015	1.6	0.055
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	0.0055 (J)	<0.015	<0.015	<0.015	<0.015	0.008 (J)	<0.015		0.068
3/20/2019								1.7	
10/15/2019	0.0067 (J)	0.006 (J)	<0.015	<0.015	<0.015	0.006 (J)	0.01 (J)		0.022 (J)
10/16/2019									
10/17/2019								1.7	
12/3/2019									
12/4/2019								1.6	
3/3/2020	0.0082 (J)	<0.015	<0.015	<0.015	0.0065 (J)	0.01 (J)	<0.015		
3/4/2020									0.044 (J)
3/5/2020								1.5	
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015	0.0071 (J)	<0.015		0.033 (J)
9/16/2020								1.7	
9/17/2020									
3/1/2021	<0.015						<0.015		
3/2/2021		0.0071 (J)	0.0053 (J)	<0.015	<0.015	0.0057 (J)			0.042
3/3/2021								1.4	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:18 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWC-30I	BRGWA-23S (bg)
3/4/2021									
9/21/2021		<0.015	<0.015		<0.015	<0.015			
9/22/2021	<0.015			<0.015			<0.015		0.047
9/23/2021									
9/28/2021								1.7	
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		0.046
2/2/2022								1.9	
2/3/2022									
2/4/2022									
8/23/2022	0.00592 (J)	0.00538 (J)	<0.015	0.00532 (J)	<0.015	0.00653 (J)	<0.015		0.0498
8/24/2022								2.15	
8/25/2022									
1/24/2023	<0.015	<0.015	<0.015	<0.015	0.0053 (J)	0.00884 (J)	<0.015		0.0437
1/25/2023									
1/26/2023								2.17	
8/22/2023	0.00649 (J)	0.00764 (J)	0.0073 (J)	0.00738 (J)			0.00611 (J)	2.05	0.039
8/23/2023									
8/24/2023									
1/30/2024	<0.015	<0.015	<0.015	<0.015			<0.015	2.36	0.0389
1/31/2024									
2/1/2024									
5/8/2024									
8/27/2024	<0.015	0.00538 (J)	<0.015	<0.015			<0.015		0.0315
8/28/2024								1.82	
8/29/2024									
2/18/2025	<0.015	0.00548 (J)	0.00591 (J)	<0.015			<0.015		0.0393
2/19/2025								1.92	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:18 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	1.63	1.03	1.28	1.35				
11/15/2016								
11/16/2016								
11/17/2016		1.7						
11/18/2016	1.91							
11/21/2016			1.19	1.74				
2/20/2017								
2/21/2017	1.39	1.55						
2/22/2017			1.43	1.5				
6/12/2017								
6/13/2017	1.62	1.77						
6/14/2017			1.57	1.6				
9/26/2017								
9/27/2017	1.16	1.75	1.51	1.83				
2/13/2018								
2/14/2018	1.17	1.47	1.6	1.8				
3/6/2018					2.12	0.0198 (J)	0.428	
5/1/2018					1.5	0.015 (J)	0.45	
6/26/2018		1.8						
6/27/2018	1.4		1.5	1.8			0.49	
6/28/2018						0.025 (J)		
7/31/2018						0.035 (J)		
8/1/2018							0.39	
8/10/2018								1.3
8/23/2018						0.022 (J)	0.39	1.4
9/19/2018						0.021 (J)	0.43	1.7
10/29/2018						0.021 (J)	0.4	1.3
11/28/2018						0.026 (J)	0.51	1.5
12/18/2018		1.5		1.5				
12/19/2018			1.6				0.41	
12/20/2018	1.4					0.028 (J)		1.6
1/17/2019								1.5
2/13/2019								1.7
3/19/2019	1.1						0.41	
3/20/2019		1.5	1.4	1.5		0.043		1.6
10/15/2019		1.2						
10/16/2019				1.2			0.36	1.3
10/17/2019	0.97		1.5			0.064		
12/3/2019						0.027 (J)		
12/4/2019	0.89		1.6					
3/3/2020								
3/4/2020	0.81	1.2		1.1			0.49	1.4
3/5/2020			1.5			0.044 (J)		
9/15/2020		1.2		1.1				
9/16/2020	1.2		1.4			0.028 (J)	0.47	
9/17/2020								1.9
3/1/2021								
3/2/2021		1.1				0.044	0.58	
3/3/2021	0.91			1				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 3:18 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
3/4/2021			1.1					1.4
9/21/2021								
9/22/2021								
9/23/2021						0.029 (J)	0.47	
9/28/2021	0.95	1.1	0.91	0.9	1.3			1.4
2/1/2022								
2/2/2022		1.1	1		1.6	0.034 (J)	0.48	1.5
2/3/2022				0.93				
2/4/2022	1							
8/23/2022		1.38					0.547	
8/24/2022				1.13				
8/25/2022	1.03		1.07		1.59	0.0458		1.56
1/24/2023			1.11					
1/25/2023	1.14				1.47	0.0355		1.79
1/26/2023		1.45		1.07			0.661	
8/22/2023			1.13					
8/23/2023					1.35			
8/24/2023	1.25	1.95		1.34		0.0444	0.689	1.87
1/30/2024			1.23		1.27		0.618	
1/31/2024	1.17	1.61		1.11				
2/1/2024						0.0355		1.61
5/8/2024	1.3		1.01					
8/27/2024	1.28			1.09	1.16			
8/28/2024			0.996				0.508	1.44
8/29/2024		2.04				0.0431		
2/18/2025							0.682	
2/19/2025	1.02	1.63	1.05	1.56	1.13	0.0537		1.67

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	12.6	19.6	13.5	4.09					
9/1/2016					4.61	8.98	3.3		
9/6/2016								12.8	63.3
9/8/2016									
11/15/2016		21.7					3.44		
11/16/2016	12.1		14.9	4.25	4.17	15.4			
11/17/2016								19.2	
11/18/2016									
11/21/2016									60.7
2/20/2017		21.1	13.9				3.52		
2/21/2017	11.4			4.02	5	17.4		15.1	
2/22/2017									62.1
6/12/2017	9.34	21.5	13.7				3.11		
6/13/2017				3.84	4.98			10.2	
6/14/2017						18.1			63.5
9/26/2017	14.3	24	14.4	3.31	4.49	19.3	3.15	15	
9/27/2017									63.5
2/13/2018	<25	<25	<25	3.94			3.65		
2/14/2018					<25	<25		<25	62.8
3/6/2018									
5/1/2018									
6/26/2018	16 (J)	23.5 (J)	13.5 (J)	3.6	6.4	15.5 (J)	3.3	18.5 (J)	
6/27/2018									
6/28/2018									73.3
7/31/2018					6.1	18.2 (J)			
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	14.5 (J)	19.8 (J)	16.4 (J)	3.8	5.5	18.7 (J)	3.5	16.8 (J)	102
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	14.3 (J)	21.4 (J)	12.3 (J)	3.9	5.9	15.9 (J)	3.6	13.5 (J)	
3/20/2019									141
10/15/2019	15.1	20	14.4	3.7	6.2	15.9	3.5	8.6	
10/16/2019									
12/3/2019									
12/4/2019									92.6
3/3/2020	20	23.2	14.9	4	6.8	19.4	5		
3/4/2020								11.5	
3/5/2020									119
9/15/2020	14.1	16.8	12.7	3.9	5.7	14.5	3.7	10.7	
9/16/2020									106
9/17/2020									
3/1/2021	15.4						4.2		
3/2/2021		16.8	13.2	4	5.4	11.7		11.6	
3/3/2021									122
3/4/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)	BRGWC-30I
9/21/2021		19.1	14.1		5.4	16.4			
9/22/2021	15.9			4.3			4.1	9.2	
9/23/2021									
9/28/2021									212
2/1/2022	14.4	19.1	14.5	4.4	5.3	14.2	4.2	10.7	
2/2/2022									232
2/3/2022									
2/4/2022									
8/23/2022	13.9	18.2	14.3	4.65	6.09	15.8	3.97	8.09	
8/24/2022									316
8/25/2022									
1/24/2023	14.2	19.4	15.8	4.86	5.62	13.7	3.9	6.97	
1/25/2023									
1/26/2023									361
8/22/2023	12.6	14.9	14.3	5.02			3.79	5.95	414
8/23/2023									
8/24/2023									
1/30/2024	14.1	18.2	16	5.25			4.27	6.19	441
1/31/2024									
2/1/2024									
5/8/2024									
8/27/2024	12.4	17.2	15.9	5.45			4.19	5.88	
8/28/2024									419
8/29/2024									
2/18/2025	13.8	16.5	16.9	5.76			4.11	7.17	
2/19/2025									442

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	59.4	87.2	93.9	60.5				
11/15/2016								
11/16/2016								
11/17/2016	78.4							
11/18/2016		82.4						
11/21/2016			99.1	31.1				
2/20/2017								
2/21/2017	80.9	75.1						
2/22/2017			105	67.3				
6/12/2017								
6/13/2017	62	61						
6/14/2017			91.3	60.2				
9/26/2017								
9/27/2017	65.8	72.6	84	68.4				
2/13/2018								
2/14/2018	58.8	74.1	72.1	70.2				
3/6/2018					<25	39.5	326	
5/1/2018					<25	45.5	305	
6/26/2018	55.5							
6/27/2018		68.2	61.1	67.1			340	
6/28/2018						41.9		
7/31/2018						41.5		
8/1/2018							358	
8/10/2018								410 (O)
8/23/2018						42.3	323	33.9
9/19/2018						41.9	321	42.3
10/29/2018						40.8	326	39.8
11/28/2018						45.1	354	38.2
12/18/2018	54.7		52.9					
12/19/2018				61.2			330	
12/20/2018		63.9				39		43.2
1/17/2019								39.4
2/13/2019								36.9
3/19/2019		60.2					335	
3/20/2019	54.2		55.4	52.8		31.2		40.3
10/15/2019	48.3							
10/16/2019			54				338	48.4
12/3/2019						43.7		
12/4/2019		76.8		52.7				
3/3/2020								
3/4/2020	52	72.3	59.3				353	49.5
3/5/2020				52.1		37.9		
9/15/2020	40.1		55.1					
9/16/2020		62.5		43.1		39.7	309	
9/17/2020								35.4
3/1/2021								
3/2/2021	44.1					33.9	353	
3/3/2021		58.2	73.3					
3/4/2021				35.7				47.5

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
9/21/2021								
9/22/2021								
9/23/2021						32	336	
9/28/2021	38.4	50.4	59.5	33.9	24.2			39.5
2/1/2022								
2/2/2022	44.3			44.2	25.1	33.8	320	40.1
2/3/2022			58.7					
2/4/2022		61.7						
8/23/2022	51.5						323	
8/24/2022			61					
8/25/2022		64		48.5	27.2	33.5		38.3
1/24/2023				46.6				
1/25/2023		55.7			25.1	34.3		36.3
1/26/2023	57.6		68				331	
8/22/2023				45.1				
8/23/2023					26.5			
8/24/2023	69.6	74.4	71.4			34	347	37.4
1/30/2024				47.4	26		340	
1/31/2024	67.4	60	89.3					
2/1/2024						32.8		36.4
5/8/2024		71.2		37.9				
8/27/2024		75.9	70.5		24.9			
8/28/2024				37.4			302	36.8
8/29/2024	77.6					42.9		
2/18/2025							322	
2/19/2025	73	46.4	119	37.7	24.5	44.3		40.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	2.3	2	3.6	4.4					
9/1/2016					2.5	3.5	3.3		
9/6/2016								6.7	5.8
9/8/2016									
11/15/2016			4		2.3				
11/16/2016	2	1.8		4.4		3.6	3.6		
11/17/2016									4.3
11/18/2016									
11/21/2016								6.5	
2/20/2017			3.9	4.8	2.4				
2/21/2017	2	1.8				3.2	3.2		3.5
2/22/2017								5.6	
6/12/2017	2.1		3.8	4.2	2.2				
6/13/2017		1.7				3.3			3.2
6/14/2017							3.1	5.7	
9/26/2017	2	1.8	4.1	4.4	2.3	3.3	3.3		3.5
9/27/2017								6	
2/13/2018	2.1	1.7	4.1	4.7	2.3				
2/14/2018						3.5	3.1	5.9	3.8
3/6/2018									
5/1/2018									
6/26/2018	2.4	2.2	4.1	4.5	2.6	3.4	3.4		3.8
6/27/2018									
6/28/2018								7	
7/31/2018						2.9	2.6		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	1.8	1.9	3.8	4.5	2.3	2.9	2.8	5.8	3.9
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	2.5	2	4.2	4.5	2.6	3.5	3.2		3.8
3/20/2019								5.8	
10/15/2019	2.2	1.9	3.7	4.2	2.4	3.4	3.1		3.5
10/16/2019									
12/3/2019									
12/4/2019								5	
3/3/2020	1.9	1.9	3.6	3.9	2.9	3.2	2.6		
3/4/2020									3.3
3/5/2020								4.3	
9/15/2020	1.9	1.7	3.7	3.7	2.3	3.5	2.4		3.1
9/16/2020								4.4	
9/17/2020									
3/1/2021	1.8				2.1				
3/2/2021		1.7	3.7	3.8		3.7	2.6		3.5
3/3/2021								4	
3/4/2021									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWC-30I	BRGWA-23S (bg)
9/21/2021			3.2	3.2		3.5	2.1		
9/22/2021	1.7	1.5			2.1				2.8
9/23/2021									
9/28/2021								3.4	
2/1/2022	1.8	1.6	3.4	3.5	2.1	3.6	2.2		3.2
2/2/2022								4	
2/3/2022									
2/4/2022									
8/23/2022	2.02	2.18	3.59	3.64	2.39	5.46	2.5		3.16
8/24/2022								4.91	
8/25/2022									
1/24/2023	2.09	2.16	3.56	3.93	2.3	3.79	2.49		2.88
1/25/2023									
1/26/2023								3.82	
8/22/2023	1.9	2.14	3.37	3.53	2.34			3.35	2.41
8/23/2023									
8/24/2023									
1/30/2024	2.35	2.14	3.52	3.98	3.23			3.52	2.4
1/31/2024									
2/1/2024									
5/8/2024									
8/27/2024	2.16	2.17	3.49	3.88	2.28				2.16
8/28/2024								3.48	
8/29/2024									
2/18/2025	2.09	2.09	3.34	4.05	2.25				2.16
2/19/2025								2.9	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	6.8	5.5	6	6.4				
11/15/2016								
11/16/2016								
11/17/2016		7.7						
11/18/2016			6.3					
11/21/2016	7.8			6.9				
2/20/2017								
2/21/2017		7.3	5.1					
2/22/2017	7			6.2				
6/12/2017								
6/13/2017		7.5	4.7					
6/14/2017	7.1			7.2				
9/26/2017								
9/27/2017	7.2	7.9	4.9	8.7				
2/13/2018								
2/14/2018	7.4	6.7	5.6	7.2				
3/6/2018					6	56.6	8.4	
5/1/2018					6	58.5	5.8	
6/26/2018		6.7						
6/27/2018	7.1		5.9	6.3			4.4	
6/28/2018						50.2		
7/31/2018						59		
8/1/2018							5.2	
8/10/2018								6.9
8/23/2018						54	3.6	7.5
9/19/2018						58.4	4.1	6.6
10/29/2018						62.6	4.3	7.8
11/28/2018						58.1	5.1	7.2
12/18/2018		6.2		5.4				
12/19/2018	7						4.5	
12/20/2018			5.6			47.2		6.6
1/17/2019								6.4
2/13/2019								6.5
3/19/2019			5.8				4.7	
3/20/2019	7.3	6.4		5.6		27.7		6.7
10/15/2019		5						
10/16/2019				6.9			4.6	7
12/3/2019						52.8		
12/4/2019	6.6		5.6					
3/3/2020								
3/4/2020		5	5.1	5.8			4.2	6.1
3/5/2020	6					37.1		
9/15/2020		4.9		5.5				
9/16/2020	5.6		5.4			54.9	4.1	
9/17/2020								6.3
3/1/2021								
3/2/2021		4.5				25.8	4.8	
3/3/2021			4.5	5.6				
3/4/2021	4.6							5.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
9/21/2021								
9/22/2021								
9/23/2021						29.3	4.3	
9/28/2021	3.6	4.2	3.7	5.4	5			5.5
2/1/2022								
2/2/2022	3.8	4.2			5.5	23.4	4.2	6.1
2/3/2022				6.1				
2/4/2022			4.6					
8/23/2022		5.38					4.49	
8/24/2022				5.84				
8/25/2022	3.96		4.65		6.28	14.9		6.27
1/24/2023	4.49							
1/25/2023			3.81		5.84	27.4		6.35
1/26/2023		6.96		5.59			4.96	
8/22/2023	4.3							
8/23/2023					6.83			
8/24/2023		8.47	4.81	6.08		16.5	4.67	6.28
1/30/2024	4.1				6.36		4.74	
1/31/2024		8.73	4.05	7.94				
2/1/2024						17.2		6.3
5/8/2024	4.11		5.06					
8/27/2024			4.47	8.87	5.99			
8/28/2024	4.09						4.57	6.58
8/29/2024		13.7				24.8		
2/18/2025							4.54	
2/19/2025	3.9	12.5	3.08	8.25	6.18	21.2		6.43

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	0.11 (J)	0.07 (J)	0.19 (J)	0.05 (J)					
9/1/2016					0.06 (J)	0.05 (J)	0.2 (J)		
9/6/2016								0.42	0.43
9/8/2016									
11/15/2016			0.08 (J)		0.04 (J)				
11/16/2016	0.05 (J)	0.03 (J)		0.04 (J)		0.03 (J)	0.14 (J)		
11/17/2016								0.15 (J)	
11/18/2016									
11/21/2016									0.24 (J)
2/20/2017		0.06 (J)	0.08 (J)		0.04 (J)				
2/21/2017	0.14 (J)			0.05 (J)		0.04 (J)	0.16 (J)	0.1 (J)	
2/22/2017									0.2 (J)
6/12/2017	0.16 (J)	0.008 (J)	0.07 (J)		0.06 (J)				
6/13/2017				0.04 (J)		0.008 (J)		0.07 (J)	
6/14/2017							0.09 (J)		0.15 (J)
9/26/2017	0.14 (J)	<0.1	0.04 (J)	<0.1	<0.1	<0.1	0.1 (J)	<0.1	
9/27/2017									0.41
2/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1				
2/14/2018						<0.1	<0.1	<0.1	<0.1
3/6/2018									
5/1/2018									
6/26/2018	0.085 (J)	0.045 (J)	0.072 (J)	0.048 (J)	0.041 (J)	0.042 (J)	0.079 (J)	0.053 (J)	
6/27/2018									
6/28/2018									0.93
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.54
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	0.066 (J)	<0.1	0.06 (J)	0.037 (J)	0.03 (J)	<0.1	<0.1	<0.1	
3/20/2019									0.31
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		0.12 (J)
8/28/2019									
8/29/2019								0.084 (J)	
10/15/2019	<0.1	<0.1	0.045 (J)	<0.1	<0.1	<0.1	0.047 (J)	<0.1	
10/16/2019									
12/3/2019									
12/4/2019									0.26 (J)
3/3/2020	0.066 (J)	<0.1	0.057 (J)	0.05 (J)	0.09 (J)	<0.1	0.056 (J)		
3/4/2020								<0.1	
3/5/2020									0.051 (J)
8/18/2020	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.052 (J)	<0.1	
8/19/2020									0.14
8/20/2020									
9/15/2020	<0.1	<0.1	0.051 (J)	<0.1	<0.1	<0.1	0.062 (J)	<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
9/16/2020									0.13
9/17/2020									
3/1/2021	<0.1				<0.1				
3/2/2021		<0.1	<0.1	<0.1		<0.1	0.061 (J)	<0.1	
3/3/2021									0.13
3/4/2021									
9/21/2021		<0.1	0.056 (J)			<0.1	0.071 (J)		
9/22/2021	<0.1			<0.1	<0.1			0.069 (J)	
9/23/2021									
9/28/2021									0.11
2/1/2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.055 (J)	<0.1	
2/2/2022									0.1
2/3/2022									
2/4/2022									
8/23/2022	<0.1	<0.1	<0.1	<0.1	<0.1	0.129	0.151	0.157	
8/24/2022									0.318
8/25/2022									
1/24/2023	<0.1	0.149	0.158	<0.1	0.12	0.0926 (J)	0.214	0.231	
1/25/2023									
1/26/2023									0.167
8/22/2023	0.267	0.289	0.277	0.229	0.0787 (J)			0.114	0.116
8/23/2023									
8/24/2023									
1/30/2024	<0.1	0.232	0.233	0.184	0.0341 (J)			0.275	0.169
1/31/2024									
2/1/2024									
5/8/2024									
8/27/2024	0.0342 (J)	0.0365 (J)	0.0516 (J)	0.0426 (J)	0.0334 (J)			0.204	
8/28/2024									0.336 (J)
8/29/2024									
2/18/2025	0.0566 (J)	0.0553 (J)	0.0749 (J)	0.0709 (J)	0.0527 (J)			0.0974 (J)	
2/19/2025									0.194

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-29I	BRGWC-27I	BRGWC-25I	BRGWC-47	BRGWC-45	BRGWC-44	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	0.15 (J)	0.2 (J)	0.31	0.14 (J)				
11/15/2016								
11/16/2016								
11/17/2016				0.27 (J)				
11/18/2016			0.19 (J)					
11/21/2016	0.04 (J)	0.37						
2/20/2017								
2/21/2017			0.35	0.6				
2/22/2017	0.08 (J)	0.37						
6/12/2017								
6/13/2017			0.19 (J)	0.19 (J)				
6/14/2017	0.09 (J)	0.38						
9/26/2017								
9/27/2017	<0.1	0.4	0.4	0.5				
2/13/2018								
2/14/2018	<0.1	<0.1	<0.1	<0.1				
3/6/2018					1.1	0.94	<0.1	
5/1/2018					0.89	<0.1	<0.1	
6/26/2018				0.15 (J)				
6/27/2018	<0.1	0.085 (J)	0.26 (J)		0.27 (J)			
6/28/2018						0.69		
7/31/2018						<0.1		
8/1/2018					0.48			
8/10/2018								1.6 (O)
8/23/2018					0.34	<0.1		0.32
9/19/2018					0.23 (J)	<0.1		0.22 (J)
10/29/2018					<0.1	<0.1		0.14 (J)
11/28/2018					0.063 (J)	<0.1		0.24 (J)
12/18/2018		0.26 (J)		0.29 (J)				
12/19/2018	0.23 (J)				0.28 (J)			
12/20/2018			0.26 (J)			0.12 (J)		0.3
1/17/2019								0.23 (J)
2/13/2019								<0.1
3/19/2019			0.2 (J)		<0.1			
3/20/2019	<0.1	0.091 (J)		0.18 (J)		0.066 (J)		0.14 (J)
8/27/2019	<0.1			0.15 (J)				
8/28/2019		0.055 (J)	0.074 (J)		<0.1	<0.1		
8/29/2019								0.087 (J)
10/15/2019				0.16 (J)				
10/16/2019		0.11 (J)			0.076 (J)			0.22 (J)
12/3/2019						0.19 (J)		
12/4/2019	0.11 (J)		0.18 (J)					
3/3/2020								
3/4/2020		<0.1	<0.1	0.07 (J)	<0.1			0.1 (J)
3/5/2020	<0.1					<0.1		
8/18/2020								
8/19/2020	<0.1	0.12	0.19	0.17				
8/20/2020					<0.1	<0.1		0.23
9/15/2020		0.057 (J)		0.15				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-29I	BRGWC-27I	BRGWC-25I	BRGWC-47	BRGWC-45	BRGWC-44	BRGWC-52I
9/16/2020	<0.1		0.15		<0.1	0.052 (J)		
9/17/2020								0.074 (J)
3/1/2021								
3/2/2021				0.15	<0.1	0.067 (J)		
3/3/2021		0.13	0.24					
3/4/2021	<0.1							0.28
9/21/2021								
9/22/2021								
9/23/2021					<0.1	0.06 (J)		
9/28/2021	<0.1	0.081 (J)	0.16	0.15			0.08 (J)	0.12
2/1/2022								
2/2/2022	<0.1			0.15	<0.1	<0.1	0.065 (J)	0.098 (J)
2/3/2022		0.11						
2/4/2022			0.14					
8/23/2022				0.186	<0.1			
8/24/2022		0.103						
8/25/2022	0.138		0.234			0.166	0.184	0.157
1/24/2023	0.082 (J)							
1/25/2023			0.152			0.163	0.13	0.169
1/26/2023		0.0935 (J)		0.202	0.117			
8/22/2023	0.0477 (J)							
8/23/2023							0.195	
8/24/2023		0.0849 (J)	0.302	0.25	0.243	0.185		0.188 (J)
1/30/2024	0.207				0.11		0.242	
1/31/2024		0.0968 (J)	0.222	0.221				
2/1/2024						0.126		0.215
5/8/2024	0.0853 (J)		0.342					
8/27/2024		0.0849 (J)	0.382				0.193	
8/28/2024	0.0511 (J)				<0.1			0.0748 (J)
8/29/2024				0.248		0.078 (J)		
2/18/2025					0.189			
2/19/2025	0.0774 (J)	0.129	0.0997 (J)	0.281		0.142	0.127	0.152

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	7.16	6.53	6.2	6.59					
9/1/2016					6.71	6	6.49		
9/6/2016								6.49	6.23
9/8/2016									
11/15/2016				6.67			6.59		
11/16/2016	6.96	6.4	6.12		6.15	6			
11/17/2016								5.79	
11/18/2016									
11/21/2016									6.23
2/20/2017		6.44		6.65			6.61		
2/21/2017	7.15		6.24		6.52	6.09		6.15	
2/22/2017									6.16
6/12/2017	7.31	6.4		6.64					
6/13/2017			6.19			6.03		5.87	
6/14/2017					6.51				6.16
9/26/2017	7.02	6.31	6.15	6.58	6.42	5.85	6.47	5.82	
9/27/2017									6.16
2/13/2018	7.44	6.62	6.18	6.72			6.54		
2/14/2018					6.48	5.99		5.83	6.24
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	6.93	6.29	6.05	6.43	6.2	5.86	6.23	5.73	
6/27/2018									
6/28/2018									6.21
7/31/2018					6.37	5.99			
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	6.76	6.57	5.92	6.7	6.5	6.08	6.71	5.78	6.18
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	6.87	6.45	6.18	6.63	6.28	5.71	6.18	5.28	
3/20/2019									6.24
8/27/2019	6.79	6.37	6.09	6.49	6.35	6	6.35		6.17
8/28/2019									
8/29/2019								5.64	
10/15/2019	6.57	6.77	6.06	7.01	6.8	6.61	6.36	5.7	
10/16/2019									
10/17/2019									6.43
12/3/2019									
12/4/2019									6.18
3/3/2020	6.71	6.29	6.1	6.49	6.33	5.94	6.59		
3/4/2020								5.7	
3/5/2020									5.99
5/12/2020									
8/18/2020	6.59	6.29	6.06	6.41	6.25	5.95	6.33	5.56	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)	BRGWC-30I
8/19/2020									6.36
8/20/2020									
9/15/2020	6.64	6.27	6.01	6.25	6.01	6	6.43	5.72	
9/16/2020									6.29
9/17/2020									
3/1/2021	6.66						6.7		
3/2/2021		6.47	6.2	6.42	6.11	5.92		5.75	
3/3/2021									6.29
3/4/2021									
9/21/2021		6.32		6.36	6.53	5.87			
9/22/2021	6.78		6.06				6.48	5.72	
9/23/2021									
9/28/2021									6.33
2/1/2022	6.83	6.38	5.95	6.39	6.4	5.81	6.54	5.65	
2/2/2022									6.34
2/3/2022									
2/4/2022									
8/23/2022	6.67	6.24	5.95	6.36	6.39	5.9	6.51	5.66	
8/24/2022									6.38
8/25/2022									
10/12/2022			5.69						
1/24/2023	6.7	6.42	5.26	6.47	6.48	5.97	6.54	5.76	
1/25/2023									
1/26/2023									6.28
1/30/2023									
4/24/2023								5.56	
4/25/2023									
5/30/2023									
8/22/2023	6.95	6.24	5.96	6.08			6.09	5.89	6.44
8/23/2023									
8/24/2023									
10/30/2023	6.22		5.5				6.28		
1/30/2024	6.57	6.44	6.05	6.38			5.75	5.87	6.39
1/31/2024									
2/1/2024									
5/8/2024									
8/27/2024	6.6	6.56	6.02	6.65			6.8	5.92	
8/28/2024									6.49
8/29/2024									
2/18/2025	6.42	6.17	5.88	6.42			6.38	5.8	
2/19/2025									6.37

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/31/2016									
9/1/2016									
9/6/2016									
9/8/2016	6.07	5.51	4.62	5.89					
11/15/2016									
11/16/2016									
11/17/2016	5.96								
11/18/2016		5.53							
11/21/2016			4.44	5.56					
2/20/2017									
2/21/2017	5.98	5.63							
2/22/2017			4.42	5.87					
6/12/2017									
6/13/2017	5.96	5.57							
6/14/2017			4.45	5.83					
9/26/2017									
9/27/2017	5.85	5.53	4.33	5.87					
2/13/2018									
2/14/2018	5.94	5.83	4.42	6.01					
3/6/2018					6.1	6.15	6		
3/15/2018						5.26			
5/1/2018					6.12	6.14	5.85		
6/26/2018	5.87								
6/27/2018		5.53	4.37	5.83			5.87		
6/28/2018						5.88			
7/31/2018						6.07			
8/1/2018							5.79		
8/10/2018								6.28	
8/23/2018								6.75	
9/19/2018						5.9	5.71	6.48	
10/29/2018						5.93	5.76	6.77	
11/28/2018						5.99	5.74	6.44	
12/18/2018	5.84		4.38						
12/19/2018				5.79			5.8		
12/20/2018		5.78				6.04		6.75	
1/17/2019								6.41	
2/13/2019								6.42	
3/19/2019		5.75					5.89		
3/20/2019	6.03		4.4	5.88		6.1		6.59	
8/27/2019	6.01			5.85					
8/28/2019		5.51	4.39			5.86	5.74		
8/29/2019								6.27	
10/15/2019	6								
10/16/2019			4.79				5.9	7	
10/17/2019		6.01		6.09		5.93			
12/3/2019						5.94			
12/4/2019		5.71		5.83					
3/3/2020									
3/4/2020	6.02	5.8	4.5				5.76	6.54	
3/5/2020				5.74		5.95			
5/12/2020				5.88					
8/18/2020									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-63I
8/19/2020	6.32	5.81	4.67	5.97					
8/20/2020						5.86	5.75	6.85	
9/15/2020	6		4.53						
9/16/2020		5.81		5.79		5.27	5.76		
9/17/2020								6.12	
3/1/2021									
3/2/2021	6.1					6.17	5.59		
3/3/2021		5.9	4.46						
3/4/2021				5.98				5.87	
9/21/2021									
9/22/2021									
9/23/2021						5.95	5.74		
9/28/2021	5.97	5.82	4.23	5.82	6.22			6.81	
2/1/2022									
2/2/2022	6.23			5.99	6.2	5.92	5.75	6.35	
2/3/2022			4.23						
2/4/2022		5.97							5.89
8/23/2022	6.11						5.61		
8/24/2022			4.39						
8/25/2022		6.03		6.06	6.06	5.74		6.21	5.65
10/12/2022									
1/24/2023				6.05					
1/25/2023		5.63			6.13	5.82		6.25	
1/26/2023	6.18		4.3				5.65		
1/30/2023									5.66
4/24/2023	6.25					5.9		6.63	
4/25/2023					6.24		5.64		5.59
5/30/2023				5.73					
8/22/2023				5.98					
8/23/2023					6.11				5.68
8/24/2023	6.14	6.01	4.48			5.71	5.69	6.24	
10/30/2023					5.73				
1/30/2024				5.98	6.18		5.73		
1/31/2024	6.31	5.83	4.37						
2/1/2024						5.85		6.3	5.7
5/8/2024		6.08		5.93					
8/27/2024		5.95	4.47		6.19				
8/28/2024				6.05			5.57	6.49	
8/29/2024	6.52					6.26			5.7
2/18/2025							5.73		
2/19/2025	6.13	5.44	3.91	6.11	6.2	5.78		6.26	5.59

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	7.5	0.38 (J)	0.81 (J)	2.7					
9/1/2016					0.6 (J)	1.7	2.7		
9/6/2016								310	38
9/8/2016									
11/15/2016			0.87 (J)		0.49 (J)				
11/16/2016	6.6	0.36 (J)		3.4		1.2	3.6		
11/17/2016									84
11/18/2016									
11/21/2016								300	
2/20/2017			1	3.9	0.98 (J)				
2/21/2017	6.1	1.5				1.1	3		39
2/22/2017								280	
6/12/2017	5		0.94 (J)	3.7	0.54 (J)				
6/13/2017		0.67 (J)				1.1			35
6/14/2017							2.6	290	
9/26/2017	5.4	0.62 (J)	0.92 (J)	4.1	0.53 (J)	1.3	2.5		89
9/27/2017								260	
2/13/2018	4.7 (J)	<1	<1	6.6	<1				
2/14/2018						<1	2.1 (J)	250	82.2
3/6/2018									
5/1/2018									
6/26/2018	6.2	0.69 (J)	0.91 (J)	3.5	0.54 (J)	0.84 (J)	2		84.2
6/27/2018									
6/28/2018								276	
7/31/2018						0.63 (J)	1.9		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	5.9	0.72 (J)	0.68 (J)	4.3	0.39 (J)	0.66 (J)	2.1	440	83.4
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	6	0.78 (J)	0.74 (J)	3	0.68 (J)	0.75 (J)	2.2		65
3/20/2019								623	
10/15/2019	5.2	0.47 (J)	0.68 (J)	3.8	0.48 (J)	0.61 (J)	1.9		30
10/16/2019									
12/3/2019									
12/4/2019								327	
3/3/2020	7.1	0.93 (J)	0.71 (J)	2.8	2.5	0.51 (J)	1.8		
3/4/2020									38.6
3/5/2020								369	
9/15/2020	5.9	<1	<1	1.7	<1	<1	1.7		41.5
9/16/2020								334	
9/17/2020									
3/1/2021	4.7				0.74 (J)				
3/2/2021		<1	<1	2.2		0.51	1.7		54
3/3/2021								371	
3/4/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWC-30I	BRGWA-23S (bg)
9/21/2021			<1	2.3		0.51 (J)	1.7		
9/22/2021	5.2	<1			<1				34.6
9/23/2021									
9/28/2021								612	
2/1/2022	5.4	<1	<1	2	<1	<1	1.4		36.8
2/2/2022								580	
2/3/2022									
2/4/2022									
8/23/2022	5.66	0.452	0.521	2.21	0.479	0.636	1.84		24.4
8/24/2022								935	
8/25/2022									
1/24/2023	3.58	0.465	0.66	3.34	0.484	0.628	1.8		19.7
1/25/2023									
1/26/2023								1030	
8/22/2023	6.85	0.526	0.54	1.83	0.467			1250	11.3
8/23/2023									
8/24/2023									
1/30/2024	2.65	0.423	0.617	2.74	0.456			1210	10.4
1/31/2024									
2/1/2024									
5/8/2024									
8/27/2024	2.58	0.444	0.652	2.67	0.465				9.73
8/28/2024								1260	
8/29/2024									
2/18/2025	3.07	0.341 (J)	0.543	3.16	0.468				13.6
2/19/2025								1310	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	370	280	300	460				
11/15/2016								
11/16/2016								
11/17/2016		200						
11/18/2016			320					
11/21/2016	420			500				
2/20/2017								
2/21/2017		360	270					
2/22/2017	380			570				
6/12/2017								
6/13/2017		290	230					
6/14/2017	400			440				
9/26/2017								
9/27/2017	400	310	260	380				
2/13/2018								
2/14/2018	383	260	232	280				
3/6/2018					51.8	111	1560	
5/1/2018					51	112	1560	
6/26/2018		231						
6/27/2018	372		205	281			1450	
6/28/2018						109		
7/31/2018						107		
8/1/2018							1560	
8/10/2018								183
8/23/2018						108	1470	145
9/19/2018						117	1500	178
10/29/2018						127	1720	157
11/28/2018						133	1730	189
12/18/2018		231		293				
12/19/2018	370						1520	
12/20/2018			200			113		150
1/17/2019								157
2/13/2019								169
3/19/2019			199				1100	
3/20/2019	409	240		278		127		180
10/15/2019		174						
10/16/2019				266			1560	155
12/3/2019						105		
12/4/2019	293		241					
3/3/2020								
3/4/2020		165	205	238			1380	129
3/5/2020	269					106		
9/15/2020		126		241				
9/16/2020	255		190			103	1360	
9/17/2020								165
3/1/2021								
3/2/2021		139				98.3	1360	
3/3/2021			172	341				
3/4/2021	185							114

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-32S	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
9/21/2021								
9/22/2021								
9/23/2021						97.5	1240	
9/28/2021	189	112	137	250	47.2			132
2/1/2022								
2/2/2022	210	117			45.3	90.1	1170	126
2/3/2022				274				
2/4/2022			172					
8/23/2022		158					1410	
8/24/2022				298				
8/25/2022	254		176		47	114		142
1/24/2023	247							
1/25/2023			150		41	102		145
1/26/2023		182		293			1310	
8/22/2023	256							
8/23/2023					49.5			
8/24/2023		174	94.5	288		114	1300	150
1/30/2024	246				42.4		1360	
1/31/2024		169	155	328				
2/1/2024						110		145
5/8/2024	233		196					
8/27/2024			174	261	41.8			
8/28/2024	201						1310	150
8/29/2024		216				150		
2/18/2025							1340	
2/19/2025	196	204	134	346	41.1	169		149

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I	BRGWC-25I
8/31/2016	151	154	138	88					
9/1/2016					69	142			
9/6/2016							146	505	
9/8/2016									460
11/15/2016		123							
11/16/2016	69		77	41	100	100			
11/17/2016							211		611
11/18/2016									
11/21/2016								515	
2/20/2017		158	170						
2/21/2017	68			<10	37	71	151		497
2/22/2017								504	
6/12/2017	161	142	132						
6/13/2017				53	84		130		474
6/14/2017						140		536	
9/26/2017	167	138	108	45	68	149	160		
9/27/2017								432	457
2/13/2018	165	150	141	63					
2/14/2018					138	137	194	448	431
3/6/2018									
5/1/2018									
6/26/2018	188	154	133	71	90	142	221		414
6/27/2018									
6/28/2018								494	
7/31/2018					83	133			
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	145	147	138	78	85	135	208	715	401
12/19/2018									
12/20/2018									
1/17/2019									
2/13/2019									
3/19/2019	154	146	130	68	82	132	161		
3/20/2019								885	412
10/15/2019	140	144	175	66	89	134	124		380
10/16/2019									
12/3/2019									
12/4/2019								612	
3/3/2020	155	130	<10	41	72	115			
3/4/2020							118		330
3/5/2020								681	
9/15/2020	116	116	100	69	60	95	109		272
9/16/2020								634	
9/17/2020									
3/1/2021	98								
3/2/2021		96	80	43	43	93	105		280
3/3/2021								690	
3/4/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I	BRGWC-25I
9/21/2021		104	108		56	117			
9/22/2021	129			66			128		
9/23/2021									
9/28/2021								1050	270
2/1/2022	126	124	129	72	63	114	130		
2/2/2022								1110	283
2/3/2022									
2/4/2022									
8/23/2022	117	101	107	45	55	104	103		315
8/24/2022								1540	
8/25/2022									
1/24/2023	93	104	124	63	59	114	102		
1/25/2023									
1/26/2023								1680	339
8/22/2023	81	73	80	36			70	1920	
8/23/2023									
8/24/2023									354
1/30/2024	98	113	118	54			85	1970	
1/31/2024									391
2/1/2024									
5/8/2024									
8/27/2024	82	101	107	51			86		
8/28/2024								2030	
8/29/2024									492
2/18/2025	84	92	106	44			104		
2/19/2025								2120	419

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWA-6S (bg)	BRGWC-47	BRGWC-44	BRGWC-45	BRGWC-52I
8/31/2016								
9/1/2016				299 (O)				
9/6/2016								
9/8/2016	478	654	607					
11/15/2016				41				
11/16/2016								
11/17/2016								
11/18/2016	503							
11/21/2016		819	695					
2/20/2017				133				
2/21/2017	380							
2/22/2017		721	635					
6/12/2017				61				
6/13/2017	354							
6/14/2017		661	635					
9/26/2017				29				
9/27/2017	376	518	601					
2/13/2018				61				
2/14/2018	503	487	628					
3/6/2018					2200	191	346	
5/1/2018					2080	189	374	
6/26/2018				71				
6/27/2018	458	648	2280		31 (O)			
6/28/2018							333	
7/31/2018							393	
8/1/2018					2190			
8/10/2018								344
8/23/2018					2160		350	333
9/19/2018					2160		353	364
10/29/2018					2130		329	334
11/28/2018					2320		358	357
12/18/2018		407		70				
12/19/2018			605		2060			
12/20/2018	344						322	355
1/17/2019								347
2/13/2019								350
3/19/2019	334			72	2050			
3/20/2019		391	564				302	366
10/15/2019				63				
10/16/2019		2030			2220			346
12/3/2019							362	
12/4/2019	422		526					
3/3/2020				54				
3/4/2020	326	391			2140			351
3/5/2020			489				297	
9/15/2020		281		79				
9/16/2020	301		428		2090		275	
9/17/2020								329
3/1/2021				39				
3/2/2021					1680		264	
3/3/2021	288	515						
3/4/2021			350					383

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 3:19 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWA-6S (bg)	BRGWC-47	BRGWC-44	BRGWC-45	BRGWC-52I
9/21/2021								
9/22/2021				62				
9/23/2021					1770		277	
9/28/2021	262	457	375			181		336
2/1/2022				61				
2/2/2022			443		1850	181	276	160
2/3/2022		419						
2/4/2022	301							
8/23/2022				52	2060			
8/24/2022		383						
8/25/2022	311		437			167	248	296
1/24/2023			425	64				
1/25/2023	260					156	251	276
1/26/2023		419			2010			
8/22/2023			412	30				
8/23/2023						184		
8/24/2023	309	418			1970		242	281
1/30/2024			418	45	2160	179		
1/31/2024	299	535						
2/1/2024							255	303
5/8/2024	371		363					
8/27/2024	346	424		57		180		
8/28/2024			374		1780			310
8/29/2024							353	
2/18/2025				46	1960			
2/19/2025	222	519	351			131	348	298

FIGURE E.

Appendix III - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-32S	-0.05906	-110	-98	Yes	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-44	-0.1408	-33	-30	Yes	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03355	119	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.2165	120	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5678	-91	-87	Yes	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1143	117	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.23	-139	-87	Yes	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	47.49	185	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-32S	-3.162	-111	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1082	-93	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.06833	-118	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2302	-149	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-6.482	-147	-92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-2I (bg)	-0.07589	-153	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-2S (bg)	-0.03954	-167	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-5S (bg)	-0.04151	-111	-98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-27I	0.05483	134	111	Yes	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2I (bg)	-0.3354	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-8.312	-126	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-15.45	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-16.59	-163	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	121.1	148	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-25.33	-147	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-37.24	-107	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-5S (bg)	-7.447	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-23S (bg)	-10.83	-127	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-27I	-19.7	-127	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-30I	196.4	164	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-32S	-36.54	-170	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-45	-18.05	-112	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-47	-35.68	-94	-87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.0002989	56	87	No	21	38.1	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-7	-87	No	21	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-25	-87	No	21	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-34	-87	No	21	52.38	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-2	-87	No	21	76.19	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.0003656	9	87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	0	3	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.04276	-61	-98	No	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-29I	-0.07557	-85	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-30I	0.05352	83	92	No	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-32S**	**-0.05906**	**-110**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-44**	**-0.1408**	**-33**	**-30**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-47**	**0.03355**	**119**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-52I	0.03437	58	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.04047	11	87	No	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.2165**	**120**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.2594	72	87	No	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-5S (bg)**	**-0.5678**	**-91**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1143**	**117**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-23S (bg)**	**-1.23**	**-139**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-25I	-1.532	-30	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-27I	-2.086	-83	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-29I	-0.7161	-18	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-30I**	**47.49**	**185**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-32S**	**-3.162**	**-111**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-44	0	1	30	No	10	20	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-1.381	-66	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-47	-0.4011	-9	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.3449	-23	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.001602	-15	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0.03055	36	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1082**	**-93**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06833**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	-0.002974	-26	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-12I (bg)**	**-0.1919**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-23S (bg)**	**-0.2302**	**-149**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-25I	0	1	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.003926	-6	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-44	0.06258	12	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-45**	**-6.482**	**-147**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-52I	-0.1234	-83	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWA-2I (bg)**	**-0.07589**	**-153**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**BRGWA-2S (bg)**	**-0.03954**	**-167**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWA-5I (bg)	-0.01803	-61	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWA-5S (bg)**	**-0.04151**	**-111**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWA-6S (bg)	-0.01485	-31	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-12I (bg)	-0.02367	-31	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-12S (bg)	-0.01693	-51	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-23S (bg)	-0.01728	-36	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWC-27I**	**0.05483**	**134**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWC-29I	-0.01622	-47	-98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWA-2I (bg)**	**-0.3354**	**-88**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2S (bg)	-0.01804	-28	-87	No	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.1653	-72	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03376	-72	-87	No	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01017	-49	-87	No	21	19.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWA-12I (bg)**	**-0.2108**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12S (bg)**	**-0.126**	**-88**	**-68**	**Yes**	**18**	**16.67**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-23S (bg)**	**-8.312**	**-126**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-25I**	**-15.45**	**-88**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-27I**	**-16.59**	**-163**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-29I	-15.27	-59	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-30I**	**121.1**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Tests - All Results

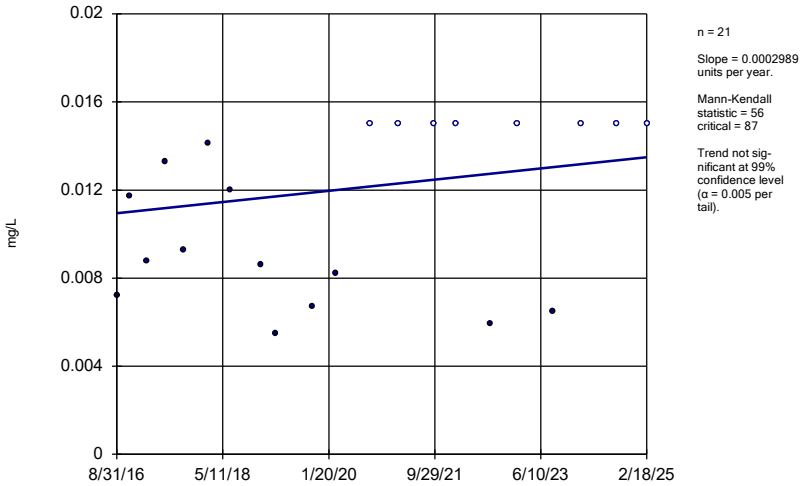
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**BRGWC-32S**	**-25.33**	**-147**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-45	-0.3473	-5	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-47**	**-37.24**	**-107**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-52I	-4.041	-69	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-2I (bg)	-9.626	-85	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-2S (bg)	-1.234	-22	-87	No	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-5I (bg)	-3.51	-64	-87	No	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-133**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWA-6S (bg)	-2.111	-39	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWA-23S (bg)**	**-10.83**	**-127**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWC-25I	-23.3	-82	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWC-27I**	**-19.7**	**-127**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWC-29I	-27.14	-66	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWC-30I**	**196.4**	**164**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**BRGWC-32S**	**-36.54**	**-170**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**BRGWC-45**	**-18.05**	**-112**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**BRGWC-47**	**-35.68**	**-94**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWC-52I	-9.233	-80	-87	No	21	0	n/a	n/a	0.01	NP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = 0.0002989 units per year.

Mann-Kendall statistic = 56
critical = 87

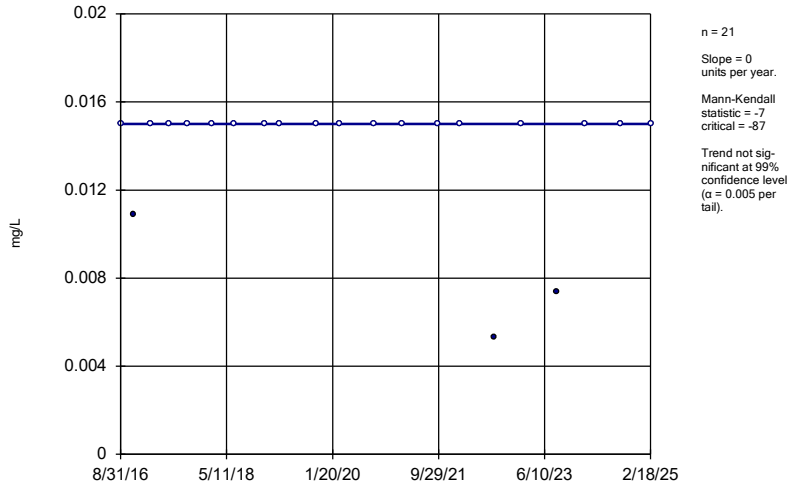
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -87

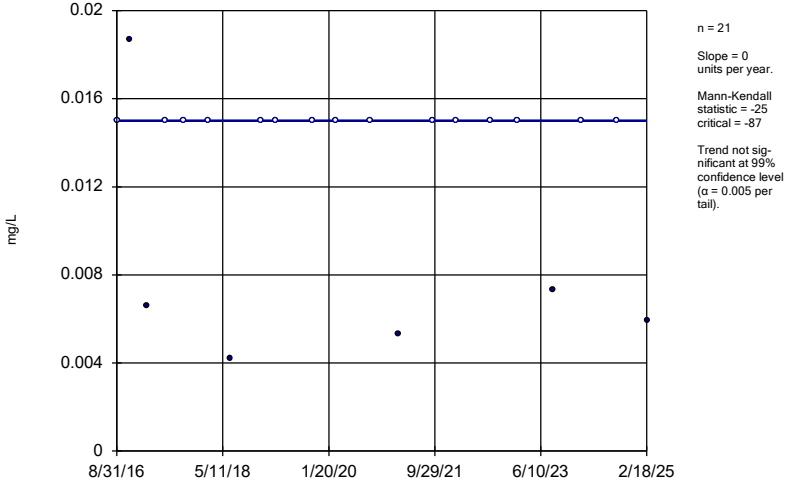
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -87

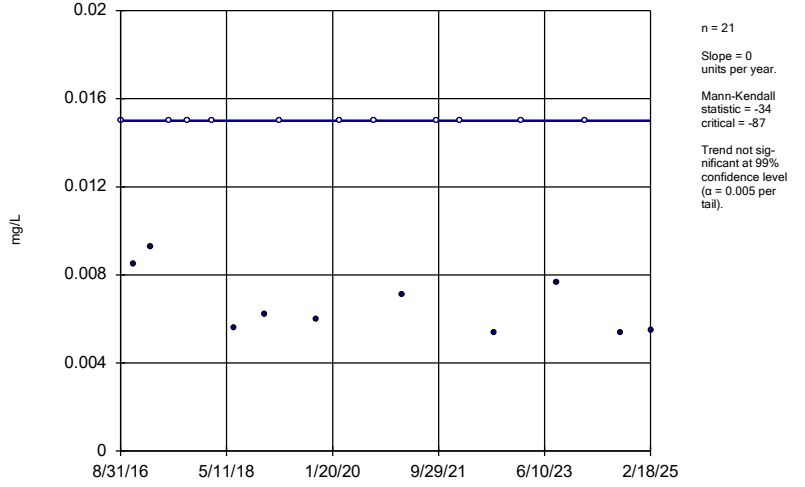
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -34
critical = -87

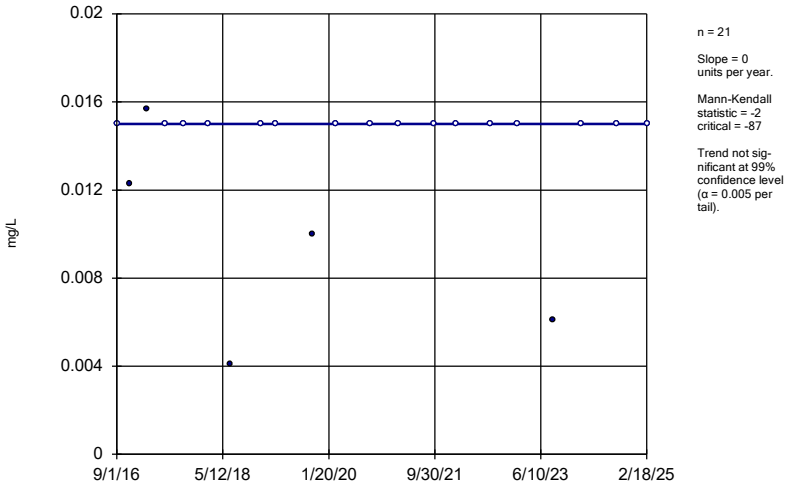
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -87

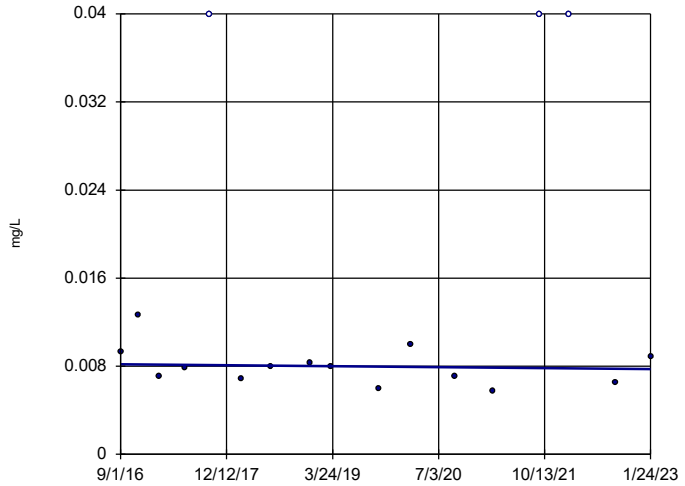
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 17

Slope = -0.00006578 units per year.

Mann-Kendall statistic = -7
critical = -63

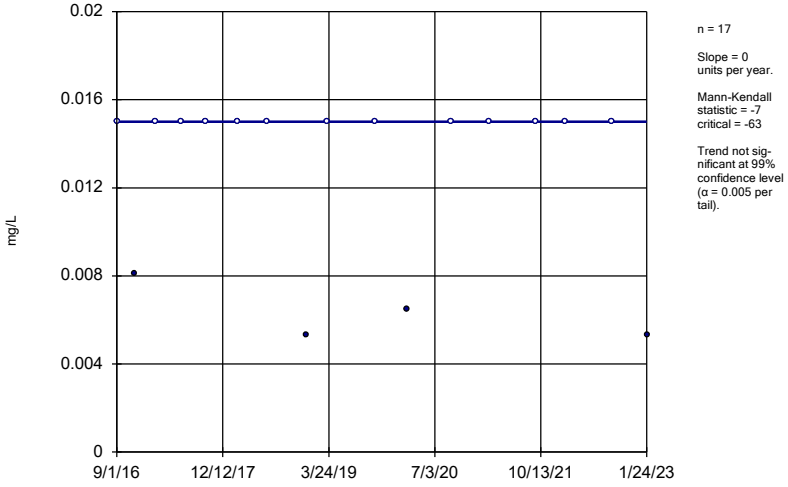
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -63

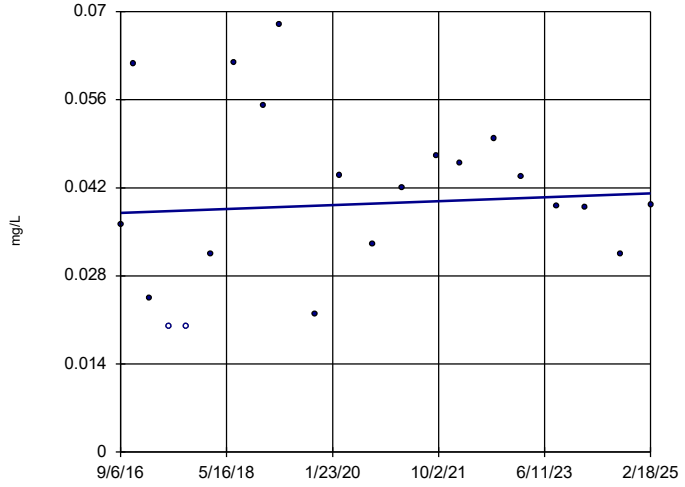
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 21

Slope = 0.0003656 units per year.

Mann-Kendall statistic = 9
critical = 87

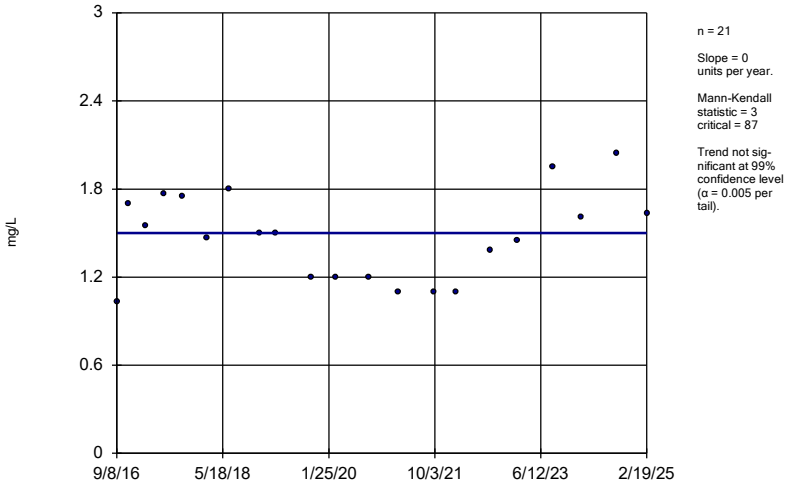
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-25I



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 87

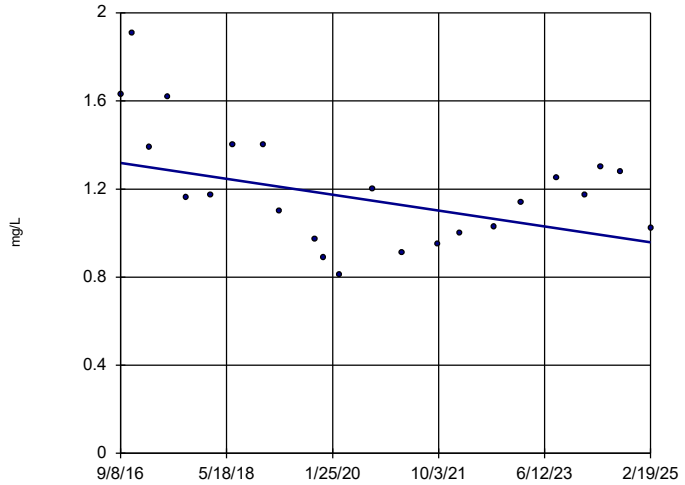
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-27I



n = 23

Slope = -0.04276 units per year.

Mann-Kendall statistic = -61
critical = -98

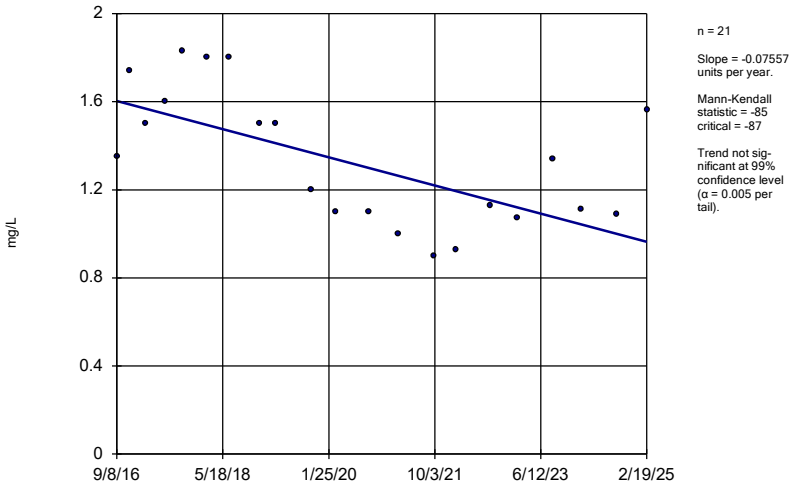
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-29I



n = 21

Slope = -0.07557 units per year.

Mann-Kendall statistic = -85
critical = -87

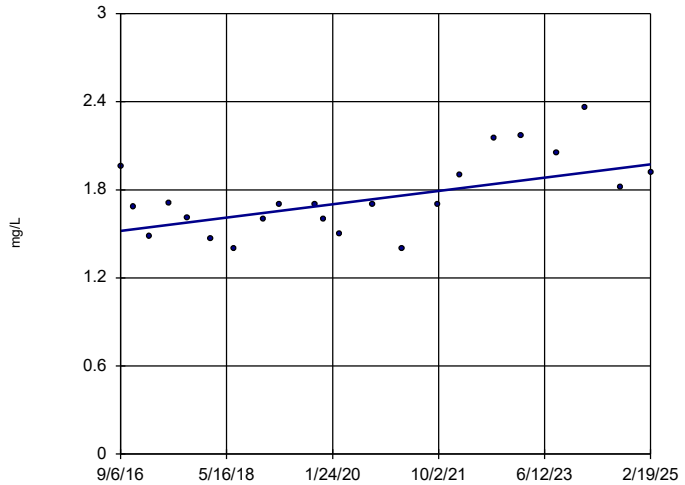
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-30I



n = 22

Slope = 0.05352 units per year.

Mann-Kendall statistic = 83
critical = 92

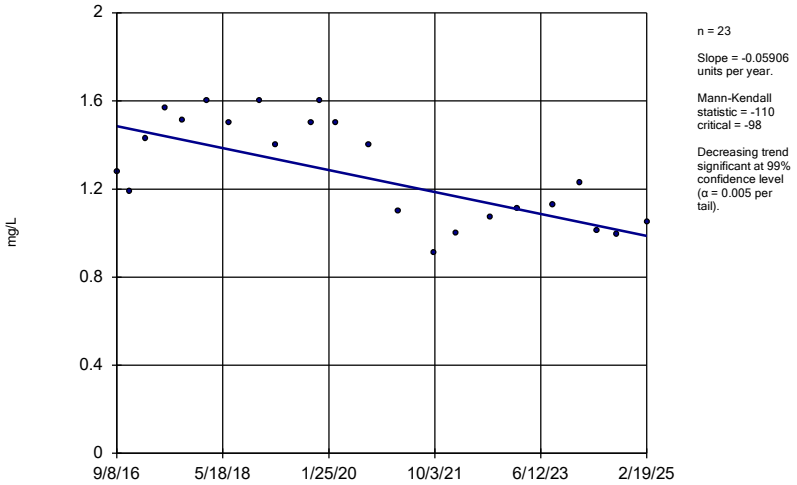
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-32S



n = 23

Slope = -0.05906 units per year.

Mann-Kendall statistic = -110
critical = -98

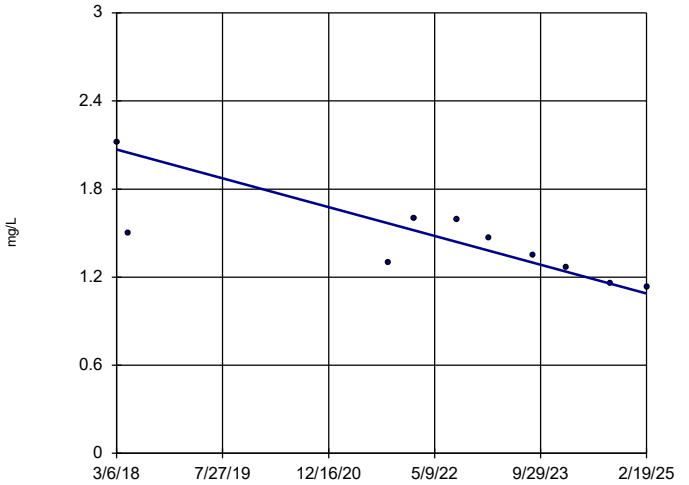
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-44



n = 10

Slope = -0.1408 units per year.

Mann-Kendall statistic = -33
critical = -30

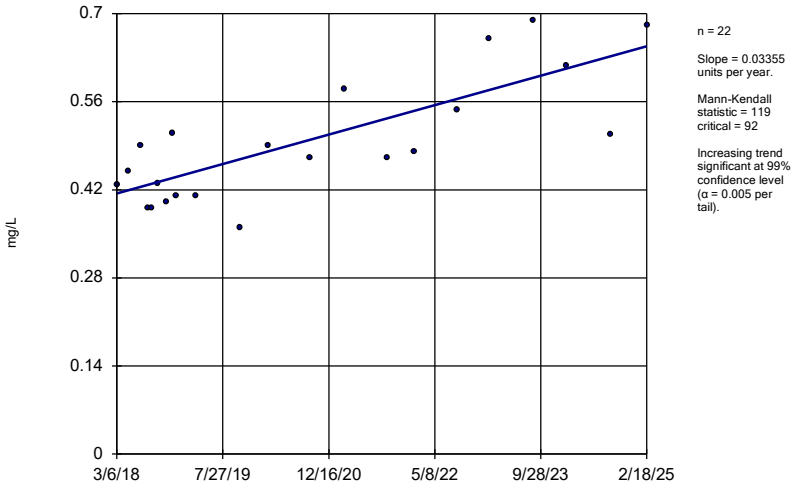
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-47



n = 22

Slope = 0.03355 units per year.

Mann-Kendall statistic = 119
critical = 92

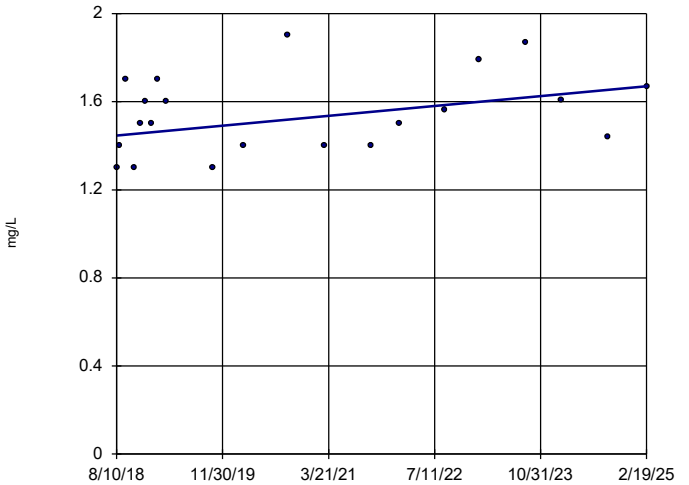
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-52I



n = 21

Slope = 0.03437 units per year.

Mann-Kendall statistic = 58
critical = 87

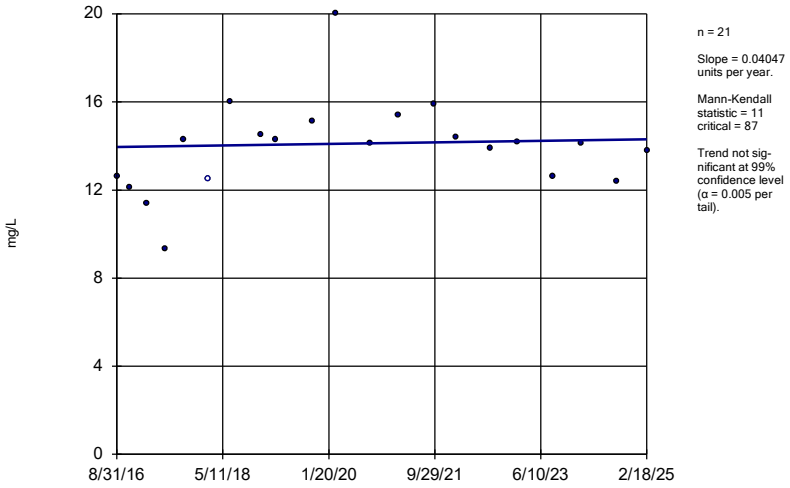
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = 0.04047 units per year.

Mann-Kendall statistic = 11
critical = 87

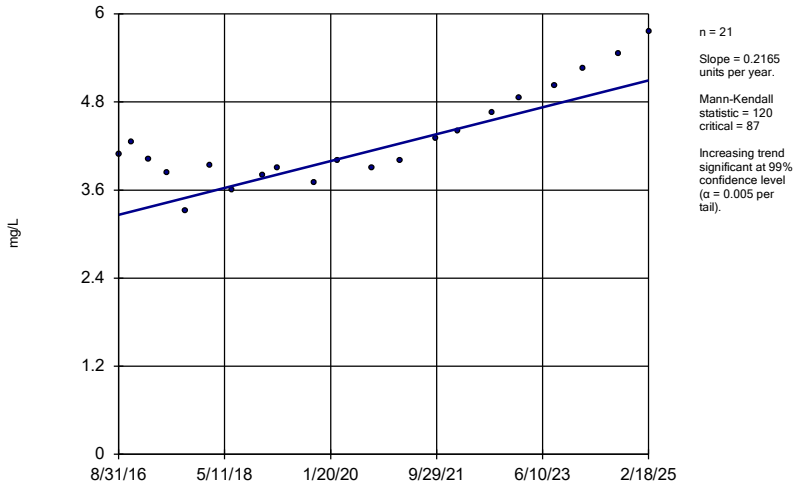
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = 0.2165 units per year.

Mann-Kendall statistic = 120
critical = 87

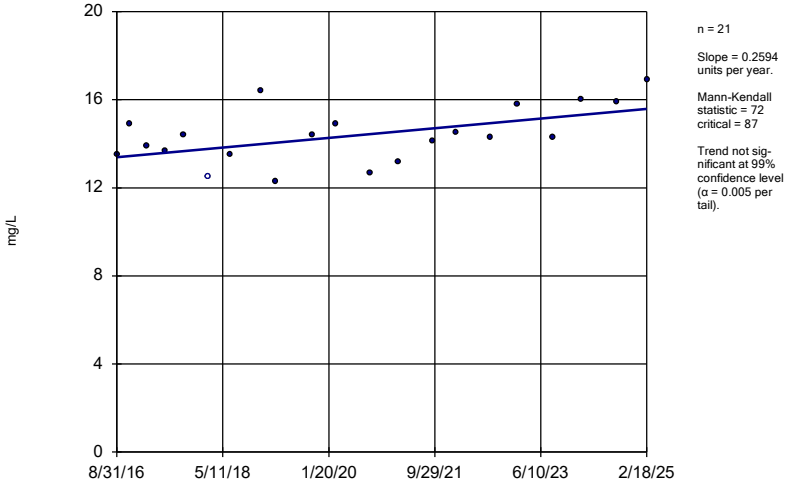
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = 0.2594 units per year.

Mann-Kendall statistic = 72
critical = 87

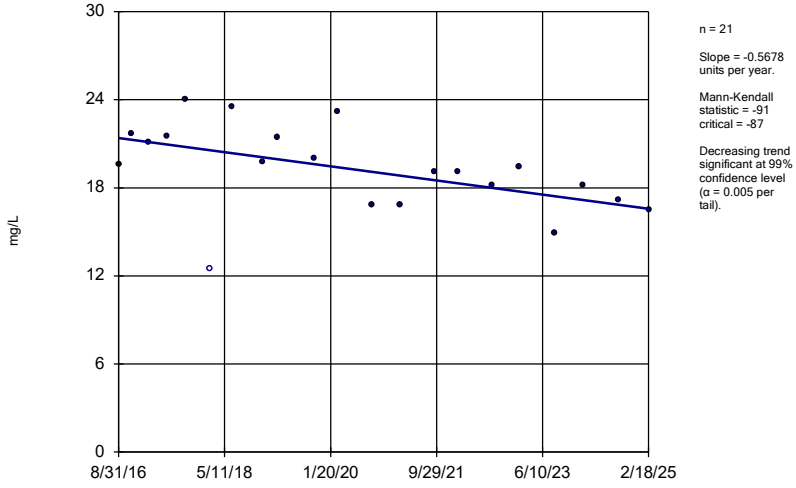
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -0.5678 units per year.

Mann-Kendall statistic = -91
critical = -87

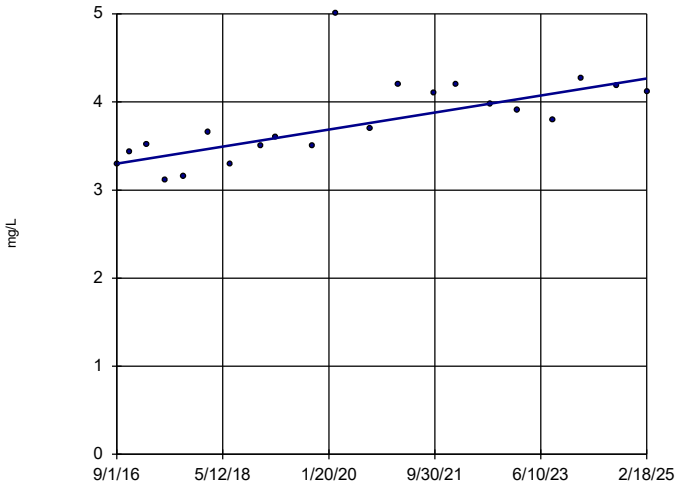
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = 0.1143 units per year.

Mann-Kendall statistic = 117 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

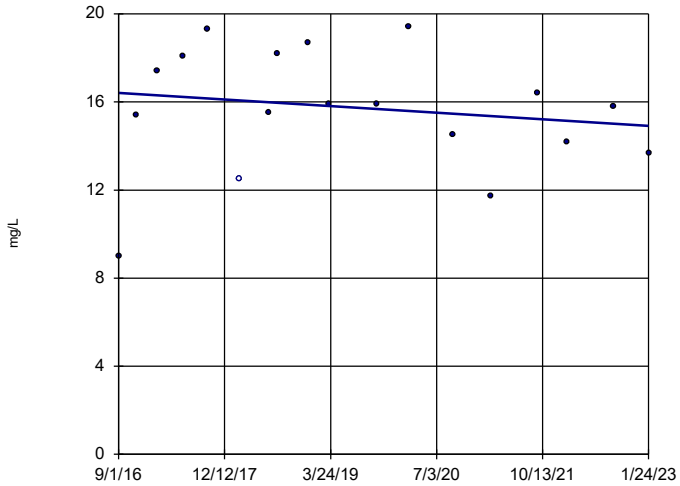
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.2348 units per year.

Mann-Kendall statistic = -12 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

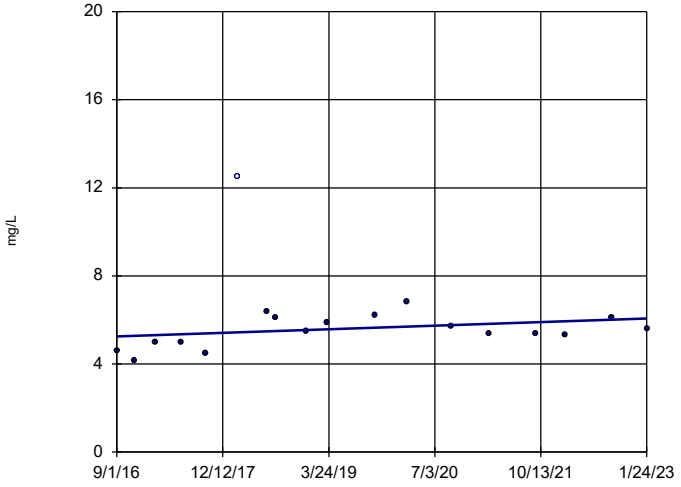
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0.1273 units per year.

Mann-Kendall statistic = 28 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

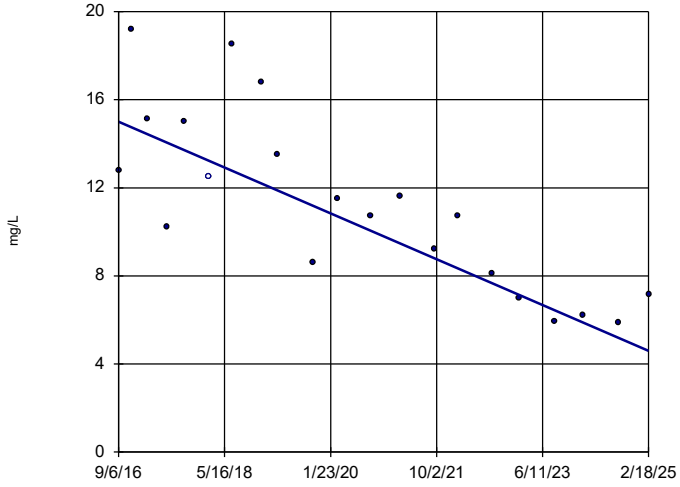
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 21

Slope = -1.23 units per year.

Mann-Kendall statistic = -139 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

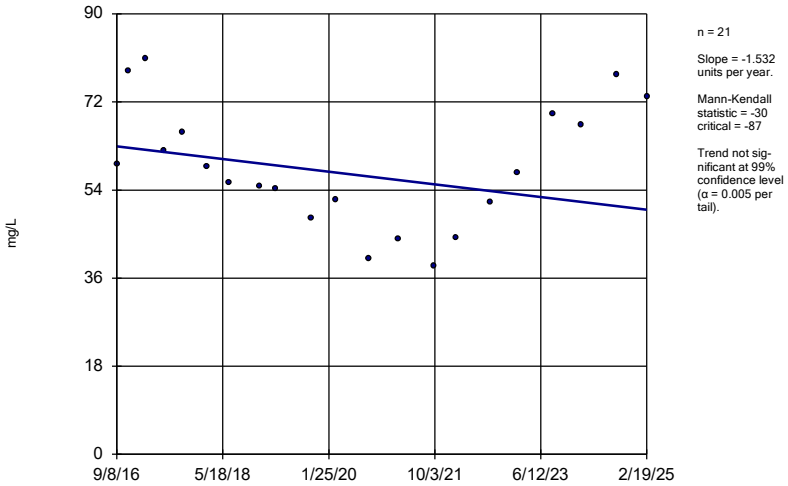
Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-25I



n = 21

Slope = -1.532 units per year.

Mann-Kendall statistic = -30
critical = -87

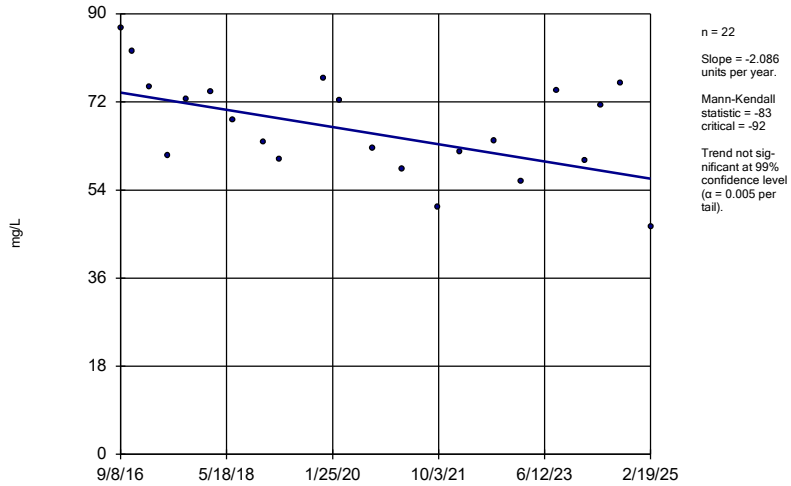
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-27I



n = 22

Slope = -2.086 units per year.

Mann-Kendall statistic = -83
critical = -92

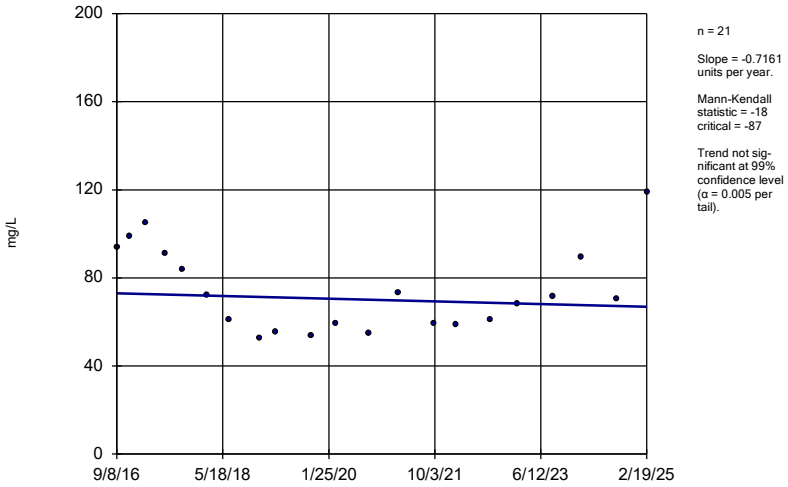
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-29I



n = 21

Slope = -0.7161 units per year.

Mann-Kendall statistic = -18
critical = -87

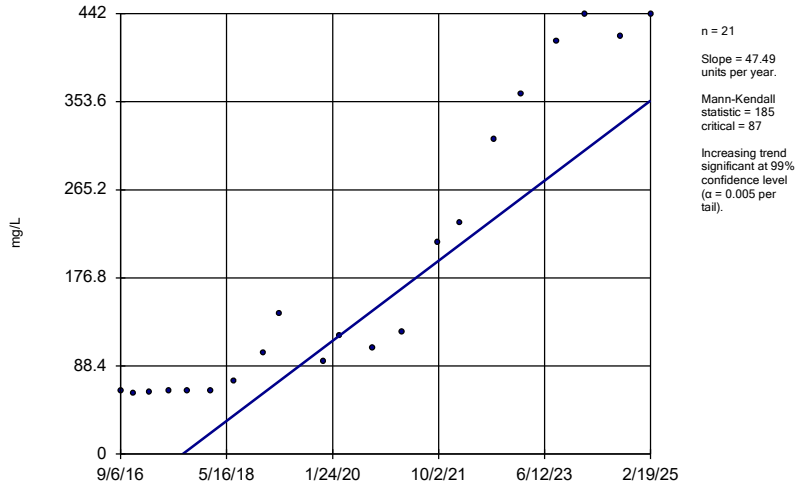
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-30I



n = 21

Slope = 47.49 units per year.

Mann-Kendall statistic = 185
critical = 87

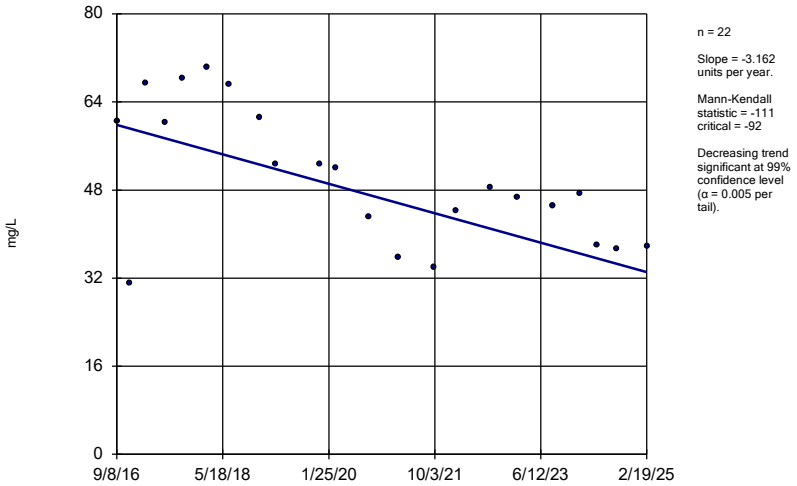
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-32S



n = 22

Slope = -3.162 units per year.

Mann-Kendall statistic = -111
critical = -92

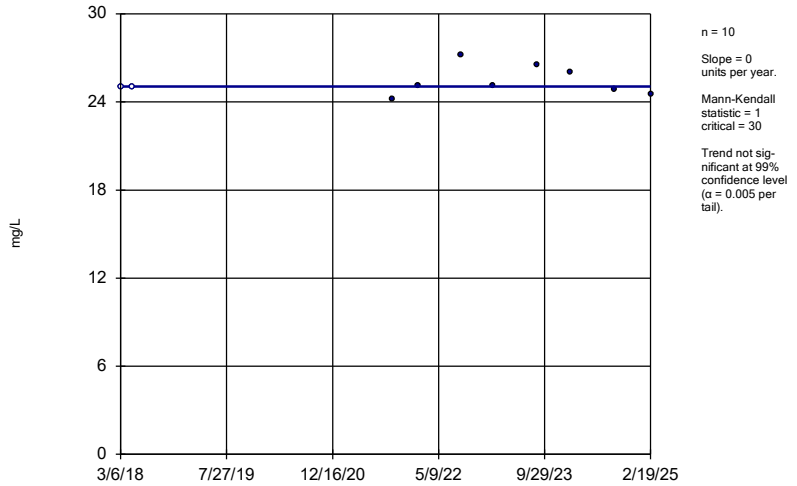
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-44



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 30

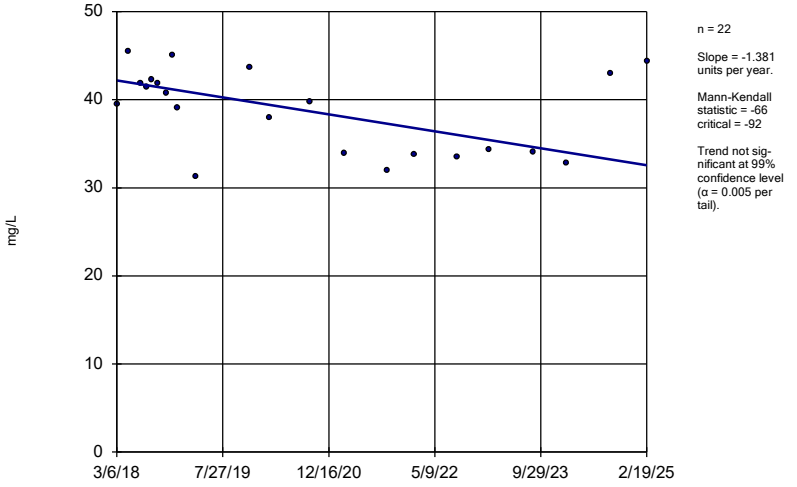
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-45



n = 22

Slope = -1.381 units per year.

Mann-Kendall statistic = -66
critical = -92

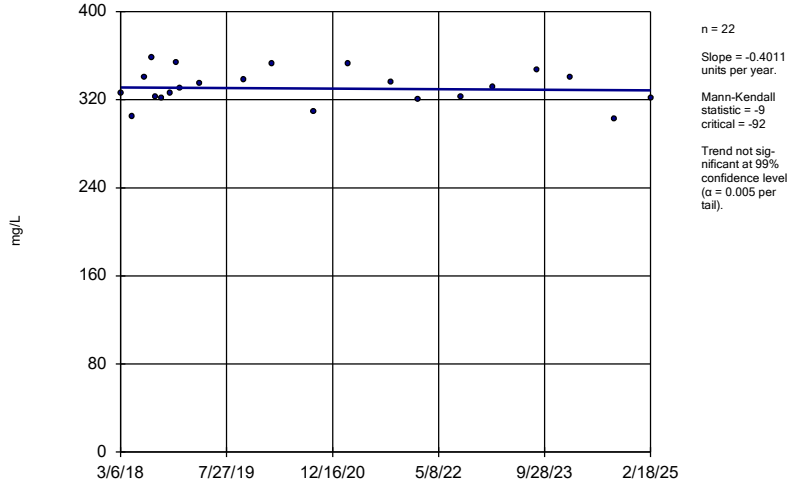
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-47



n = 22

Slope = -0.4011 units per year.

Mann-Kendall statistic = -9
critical = -92

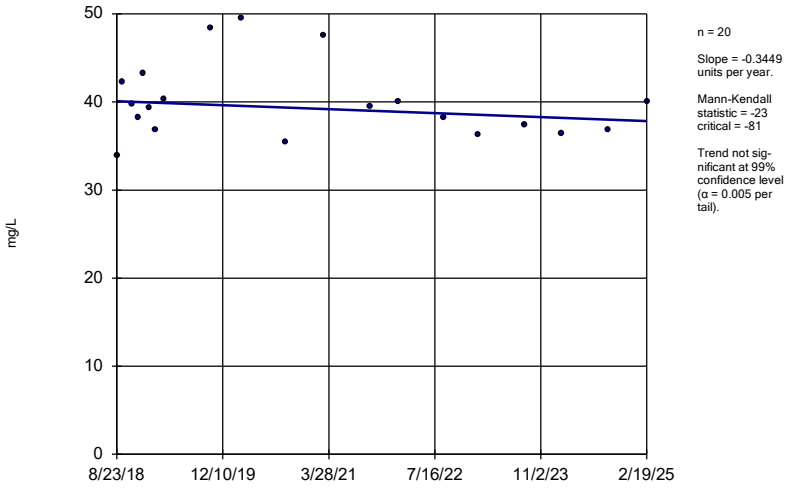
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-52I



n = 20

Slope = -0.3449 units per year.

Mann-Kendall statistic = -23 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

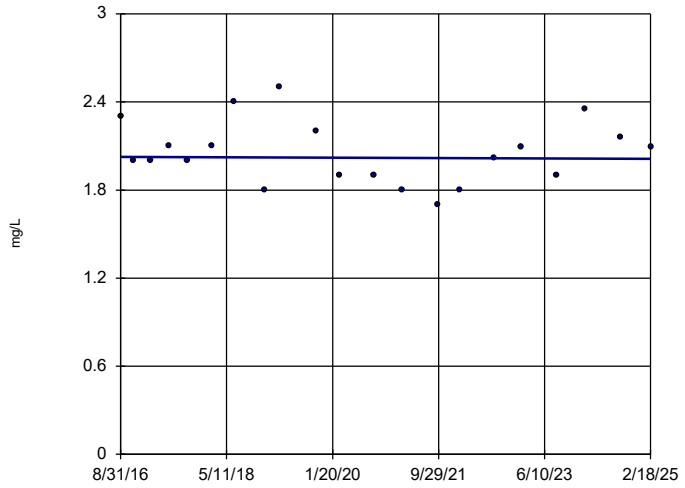
Constituent: Calcium Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = -0.001602 units per year.

Mann-Kendall statistic = -15 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

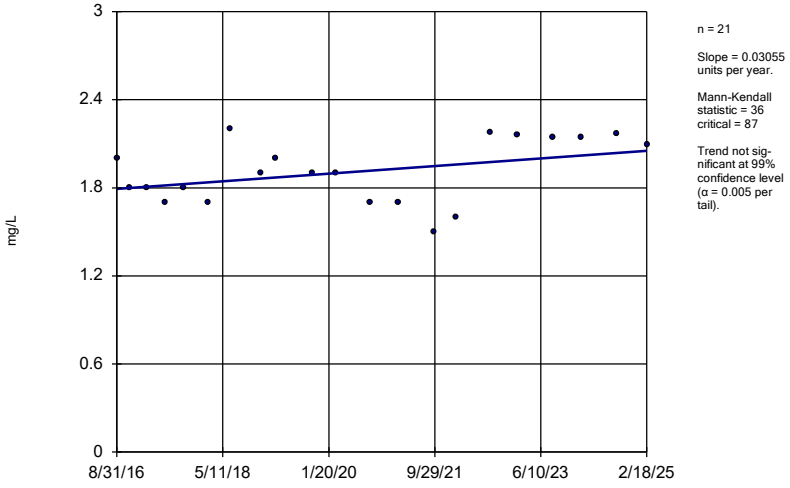
Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = 0.03055 units per year.

Mann-Kendall statistic = 36 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

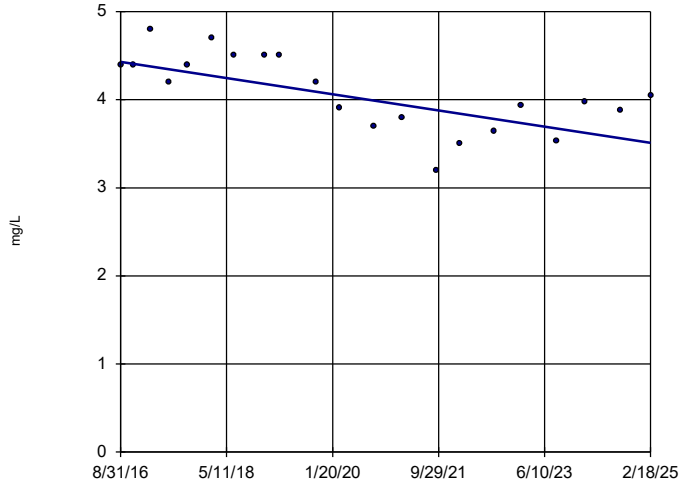
Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -0.1082 units per year.

Mann-Kendall statistic = -93 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

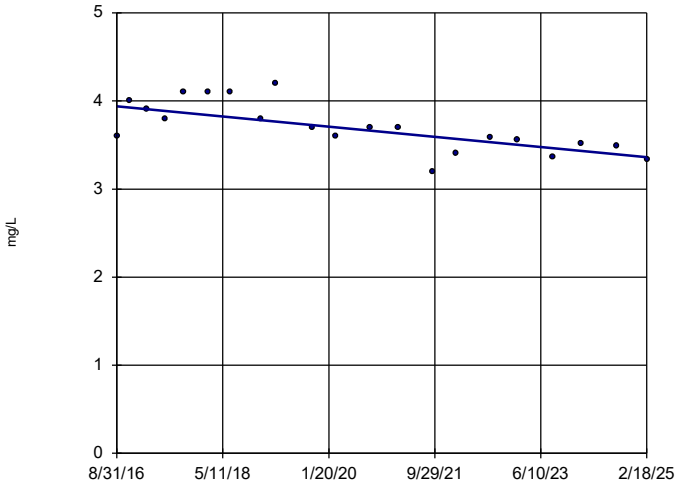
Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -0.06833 units per year.

Mann-Kendall statistic = -118 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

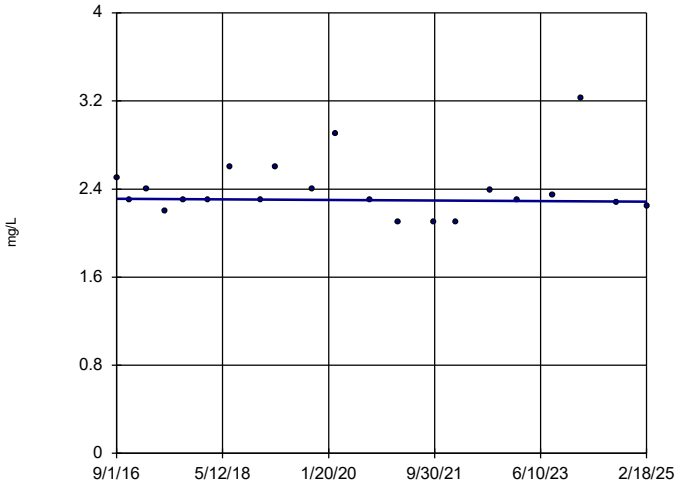
Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = -0.002974 units per year.

Mann-Kendall statistic = -26 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

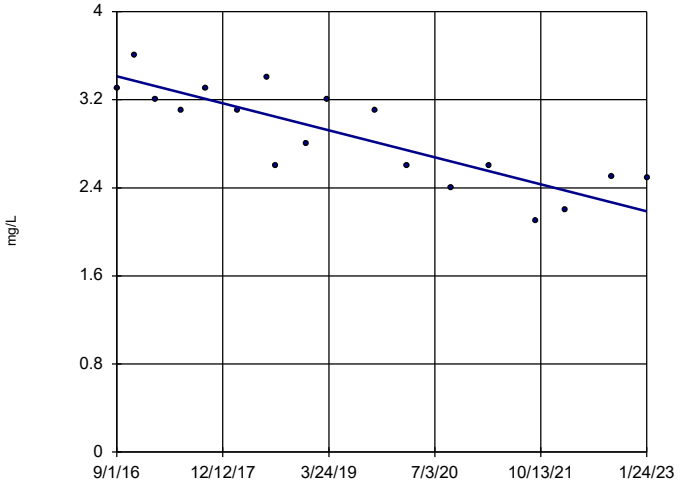
Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.1919 units per year.

Mann-Kendall statistic = -99 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

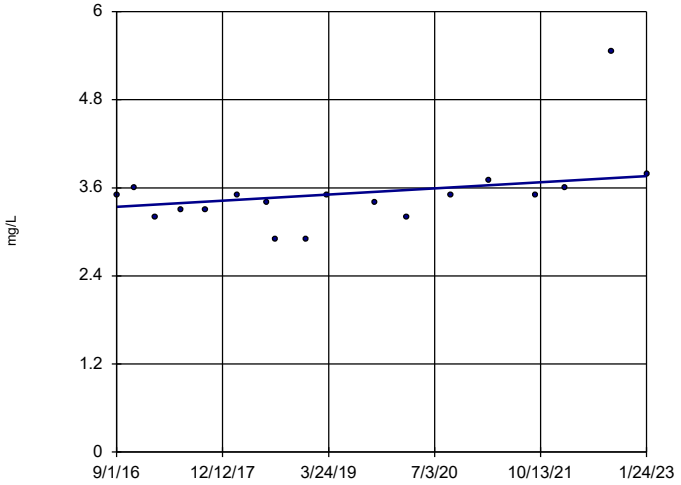
Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0.06545 units per year.

Mann-Kendall statistic = 54 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

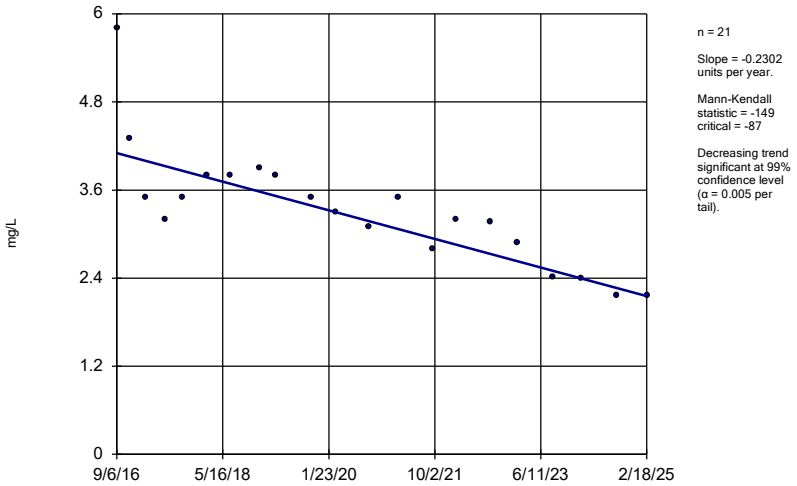
Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-23S (bg)



n = 21

Slope = -0.2302 units per year.

Mann-Kendall statistic = -149
critical = -87

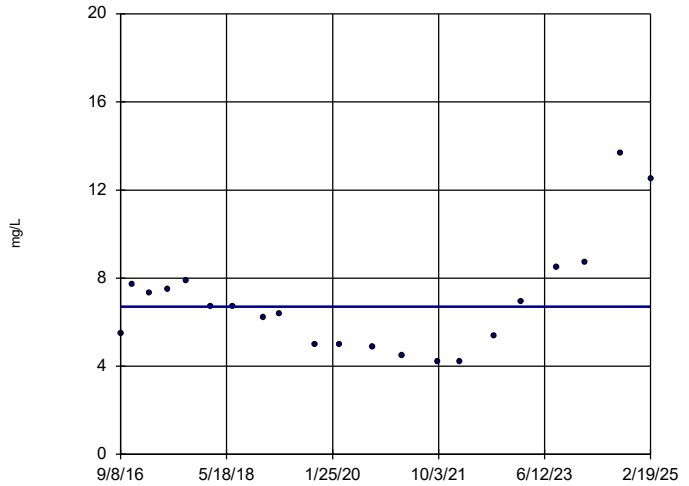
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-25I



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 87

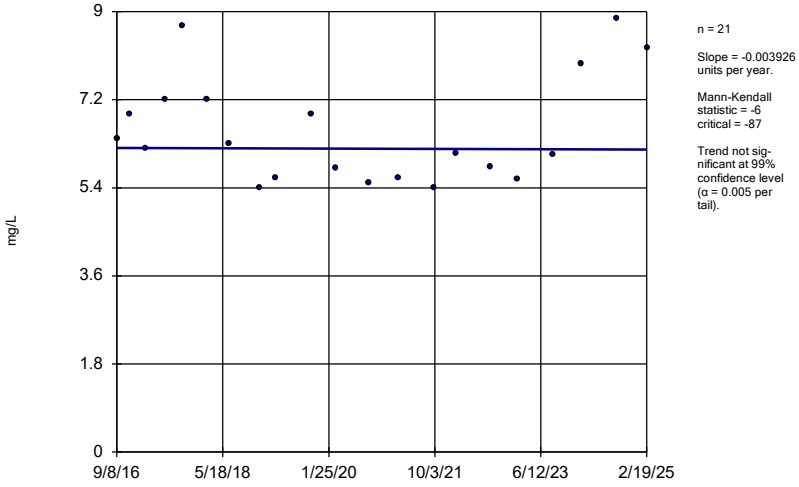
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-29I



n = 21

Slope = -0.003926 units per year.

Mann-Kendall statistic = -6
critical = -87

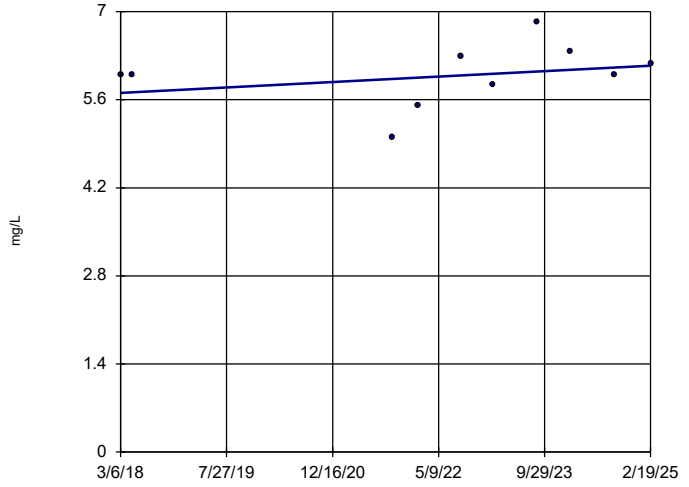
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-44



n = 10

Slope = 0.06258 units per year.

Mann-Kendall statistic = 12
critical = 30

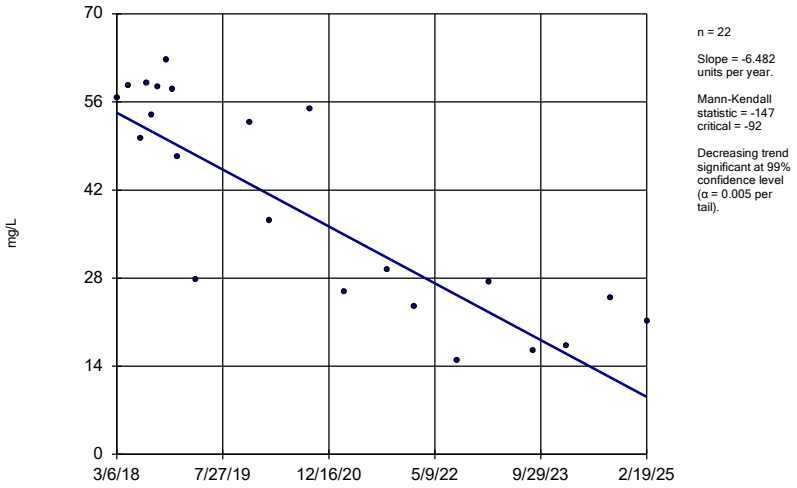
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-45



n = 22

Slope = -6.482 units per year.

Mann-Kendall statistic = -147 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

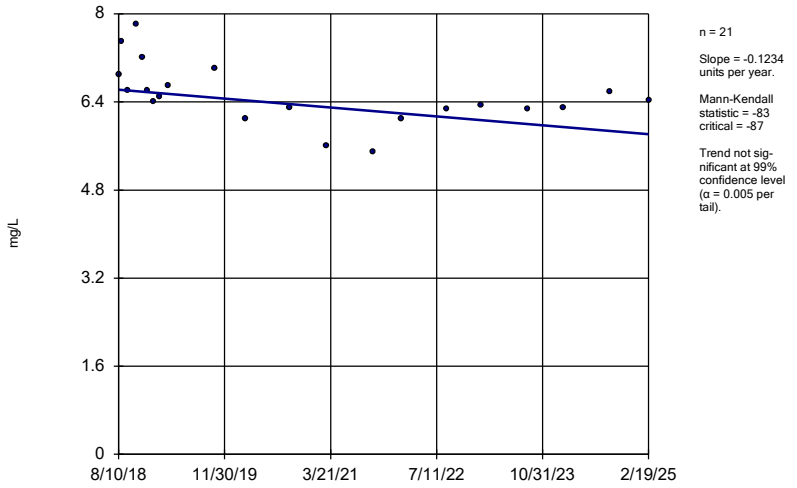
Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-52I



n = 21

Slope = -0.1234 units per year.

Mann-Kendall statistic = -83 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

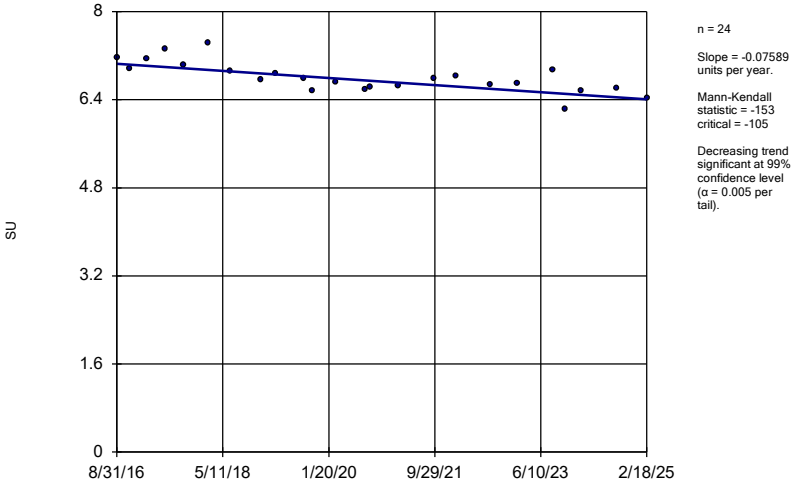
Constituent: Chloride Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-2I (bg)



n = 24

Slope = -0.07589 units per year.

Mann-Kendall statistic = -153 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

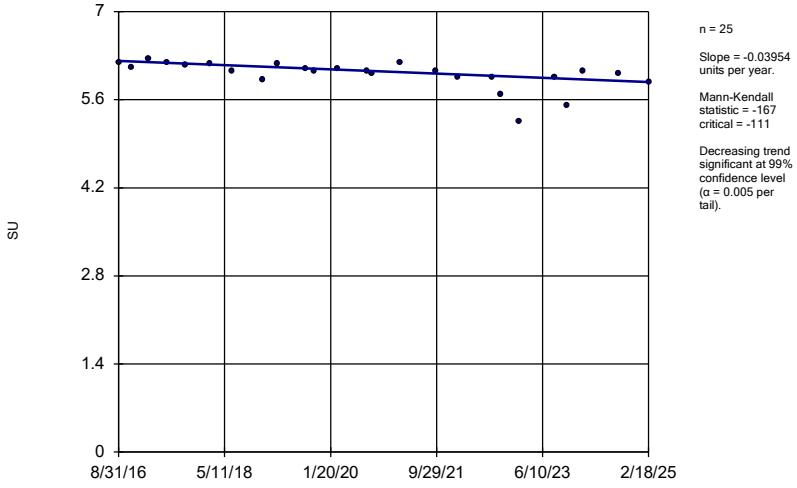
Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-2S (bg)



n = 25

Slope = -0.03954 units per year.

Mann-Kendall statistic = -167 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

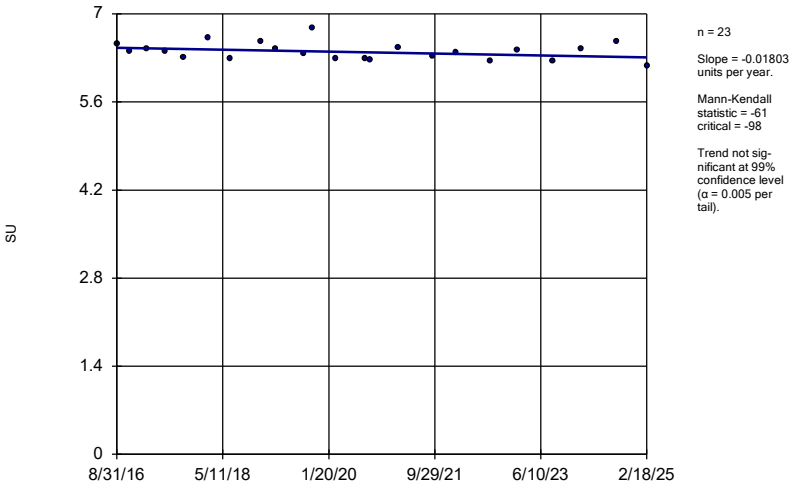
Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-5I (bg)



n = 23

Slope = -0.01803 units per year.

Mann-Kendall statistic = -61
critical = -98

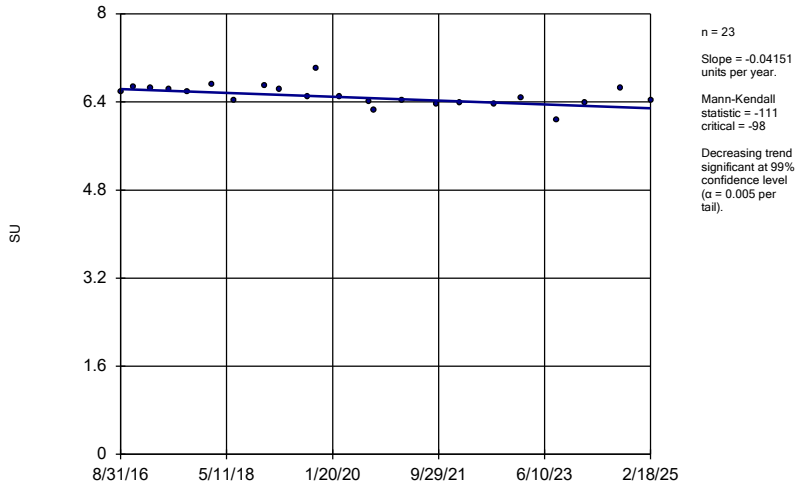
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-5S (bg)



n = 23

Slope = -0.04151 units per year.

Mann-Kendall statistic = -111
critical = -98

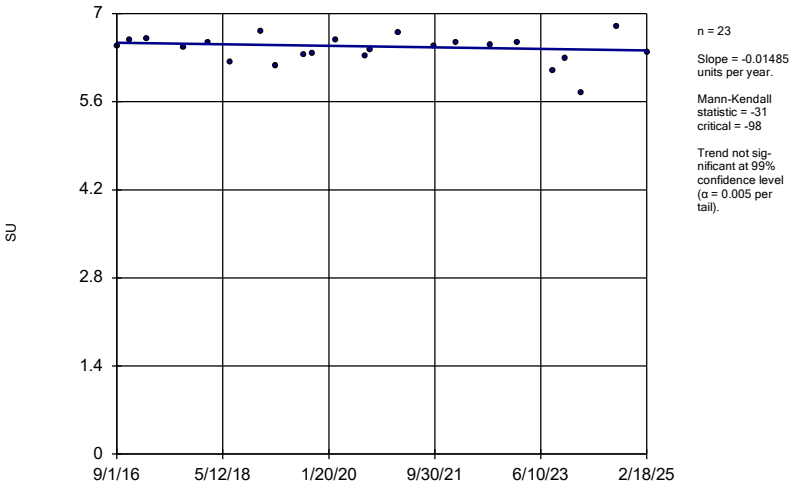
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-6S (bg)



n = 23

Slope = -0.01485 units per year.

Mann-Kendall statistic = -31
critical = -98

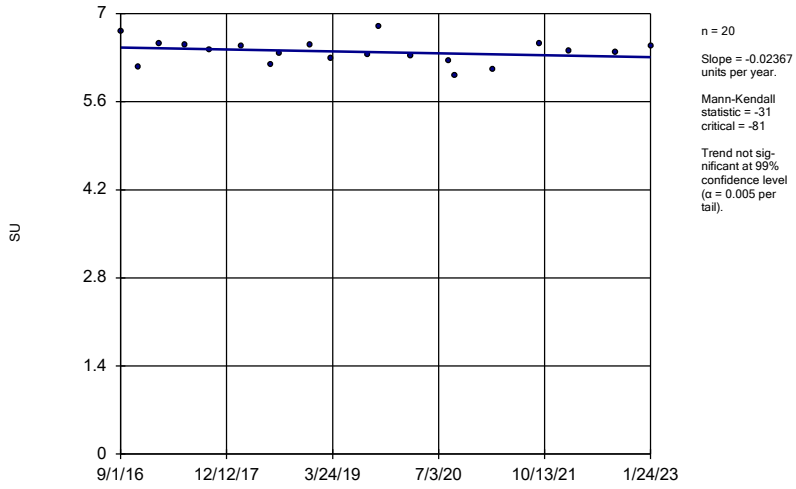
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-12I (bg)



n = 20

Slope = -0.02367 units per year.

Mann-Kendall statistic = -31
critical = -81

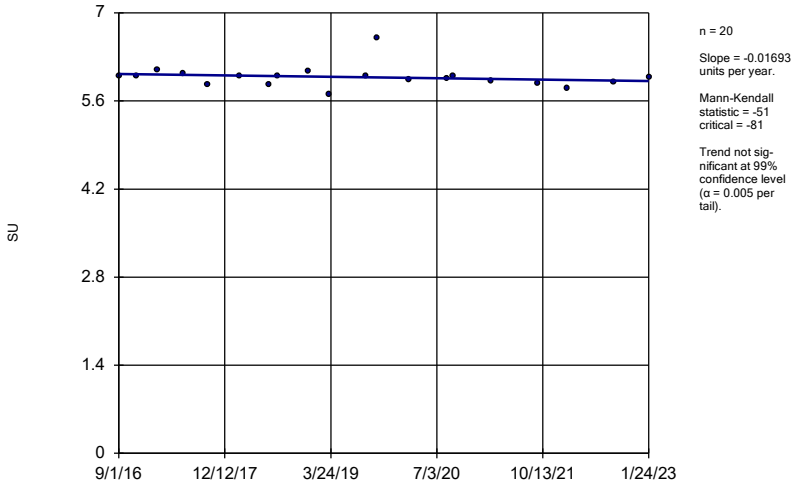
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-12S (bg)



n = 20

Slope = -0.01693 units per year.

Mann-Kendall statistic = -51
critical = -81

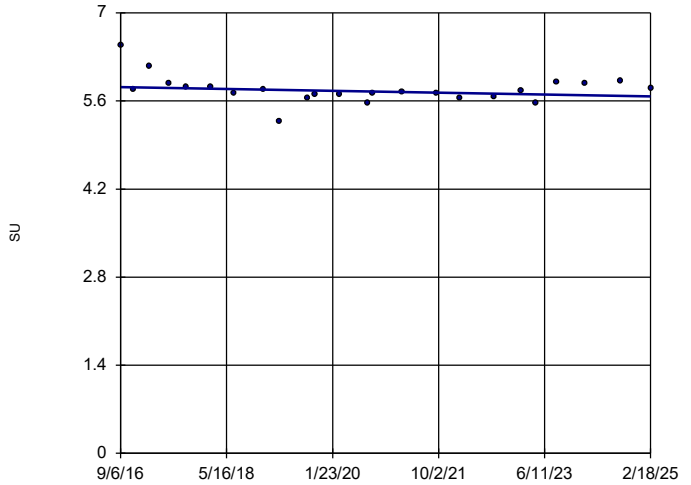
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-23S (bg)



n = 24

Slope = -0.01728 units per year.

Mann-Kendall statistic = -36
critical = -105

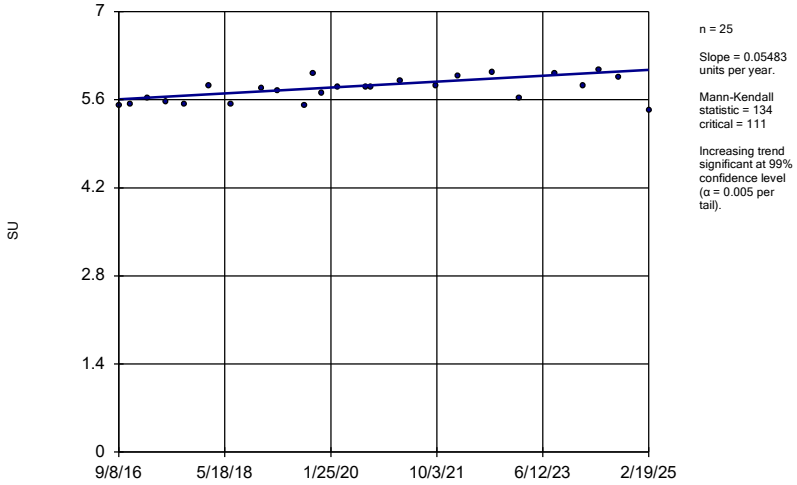
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-27I



n = 25

Slope = 0.05483 units per year.

Mann-Kendall statistic = 134
critical = 111

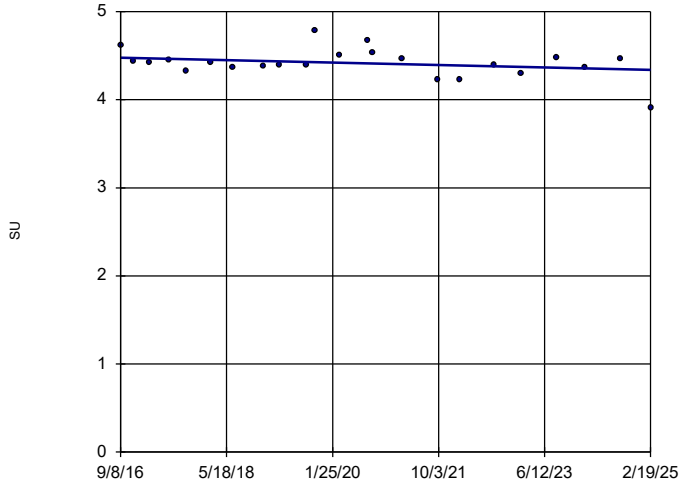
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-29I



n = 23

Slope = -0.01622 units per year.

Mann-Kendall statistic = -47
critical = -98

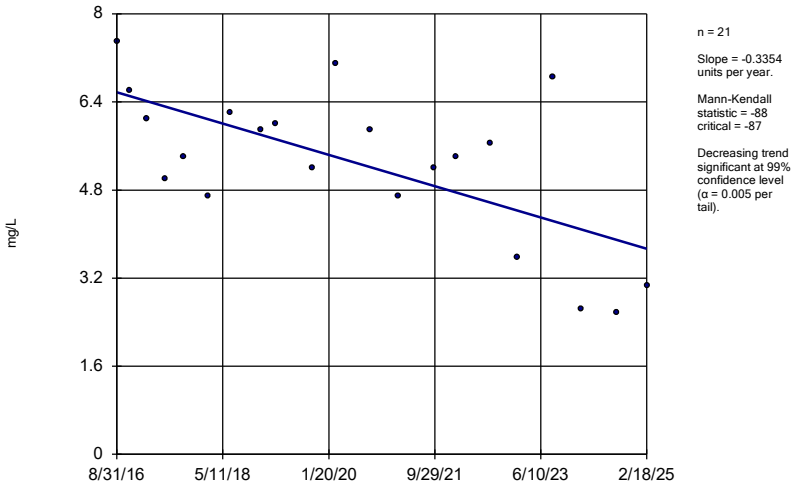
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = -0.3354 units per year.

Mann-Kendall statistic = -88
critical = -87

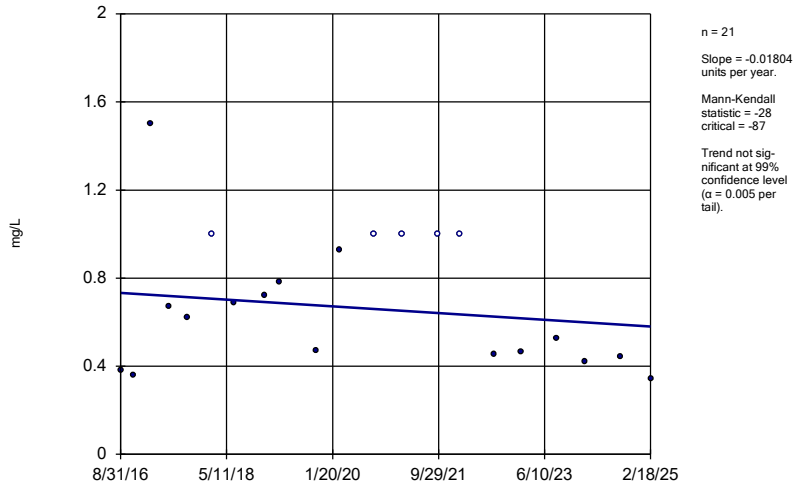
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = -0.01804 units per year.

Mann-Kendall statistic = -28
critical = -87

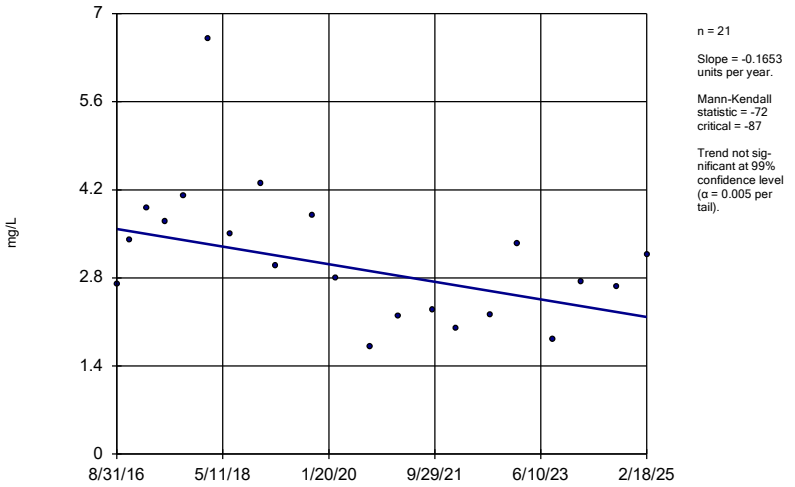
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -0.1653 units per year.

Mann-Kendall statistic = -72
critical = -87

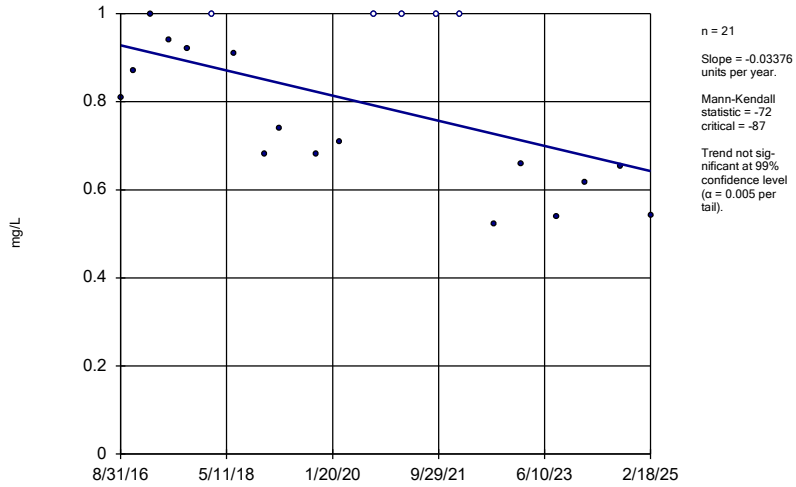
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -0.03376 units per year.

Mann-Kendall statistic = -72
critical = -87

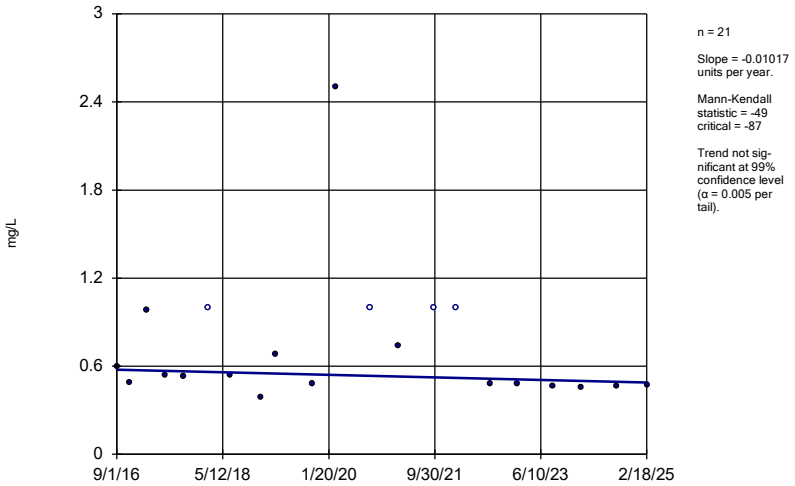
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = -0.01017 units per year.

Mann-Kendall statistic = -49
critical = -87

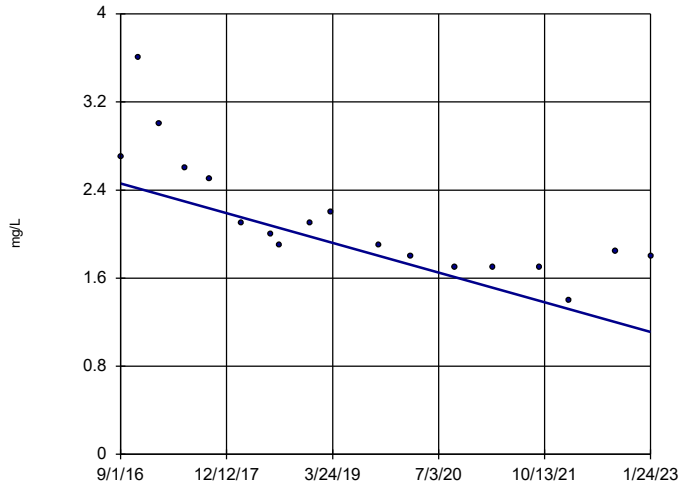
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.2108 units per year.

Mann-Kendall statistic = -113
critical = -68

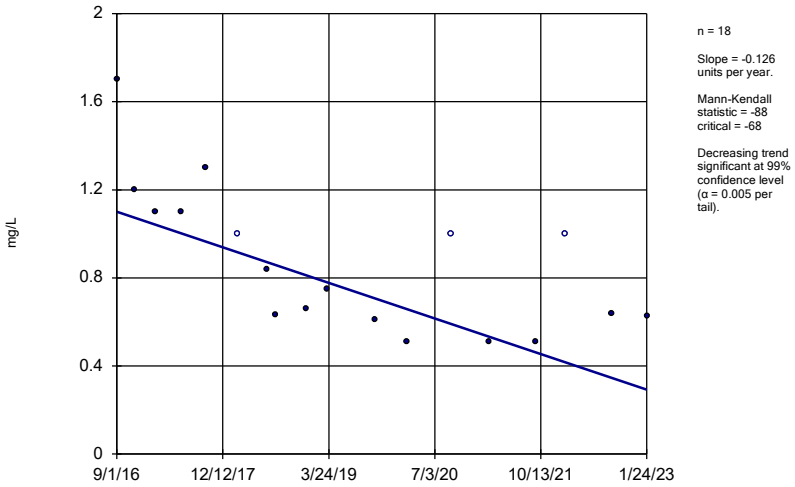
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = -0.126 units per year.

Mann-Kendall statistic = -88
critical = -68

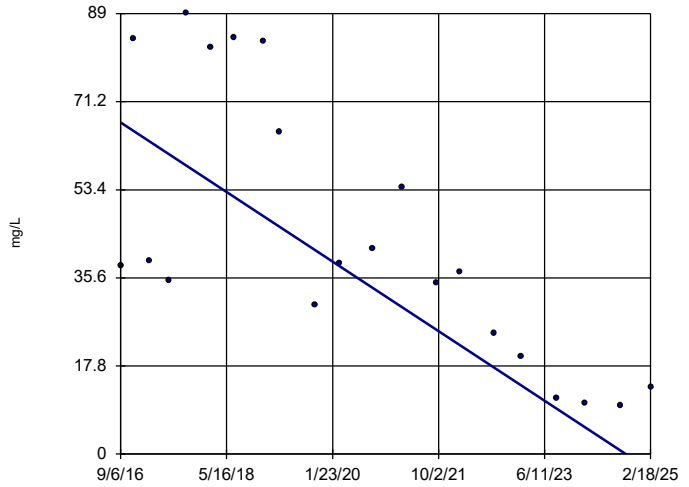
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-23S (bg)



n = 21

Slope = -8.312 units per year.

Mann-Kendall statistic = -126
critical = -87

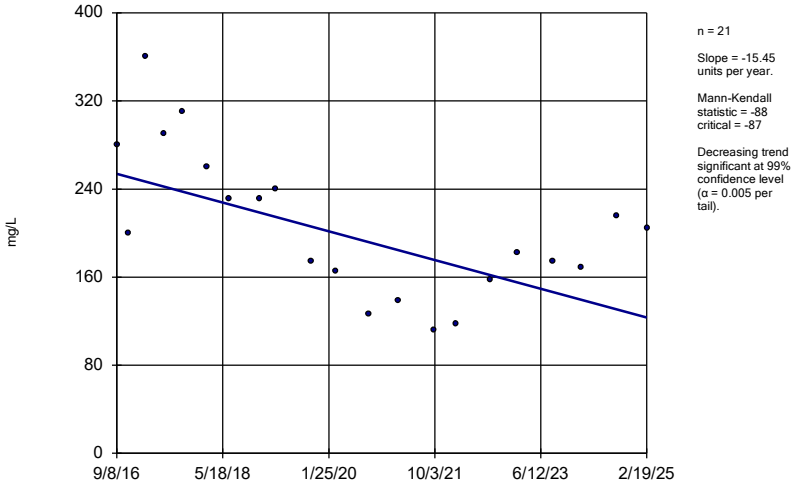
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-25I



n = 21

Slope = -15.45 units per year.

Mann-Kendall statistic = -88
critical = -87

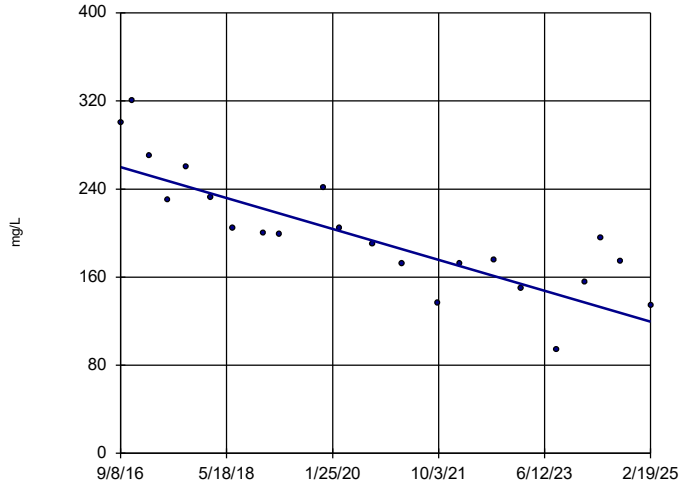
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-27I



n = 22

Slope = -16.59 units per year.

Mann-Kendall statistic = -163
critical = -92

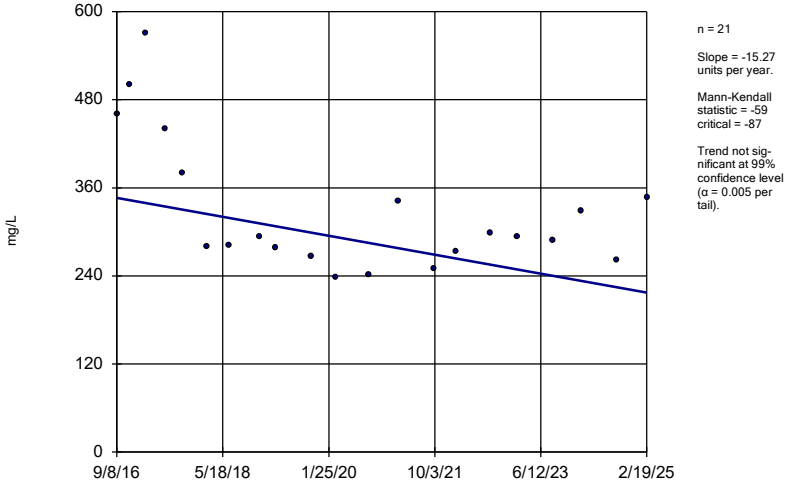
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-29I



n = 21

Slope = -15.27 units per year.

Mann-Kendall statistic = -59
critical = -87

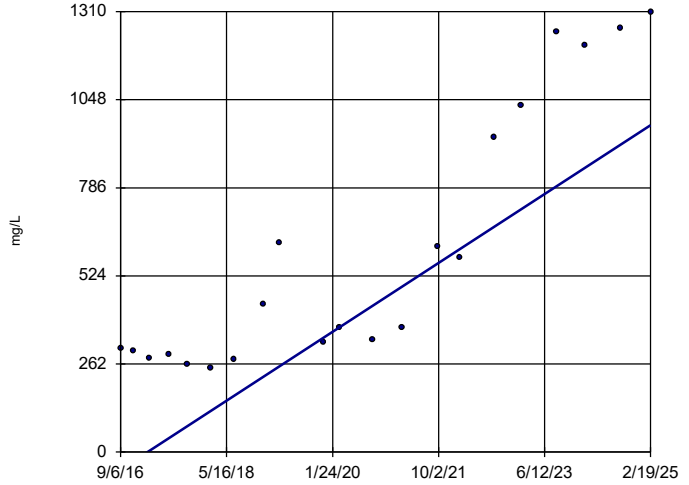
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:21 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-30I



n = 21

Slope = 121.1 units per year.

Mann-Kendall statistic = 148
critical = 87

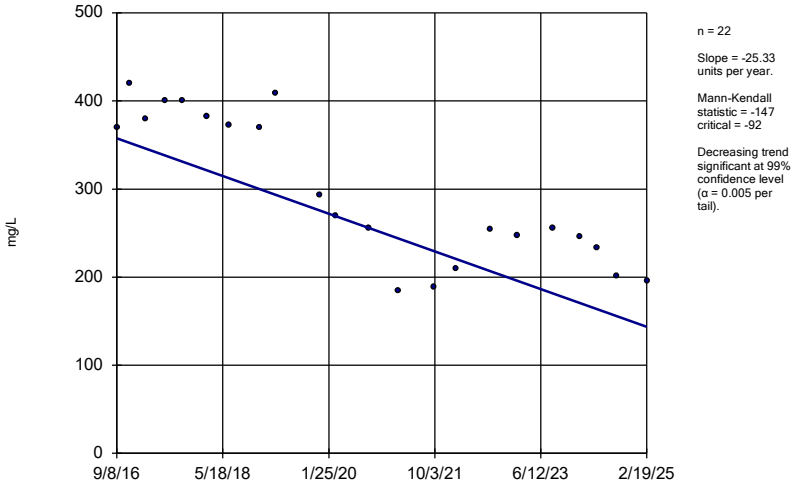
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-32S



n = 22

Slope = -25.33 units per year.

Mann-Kendall statistic = -147 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

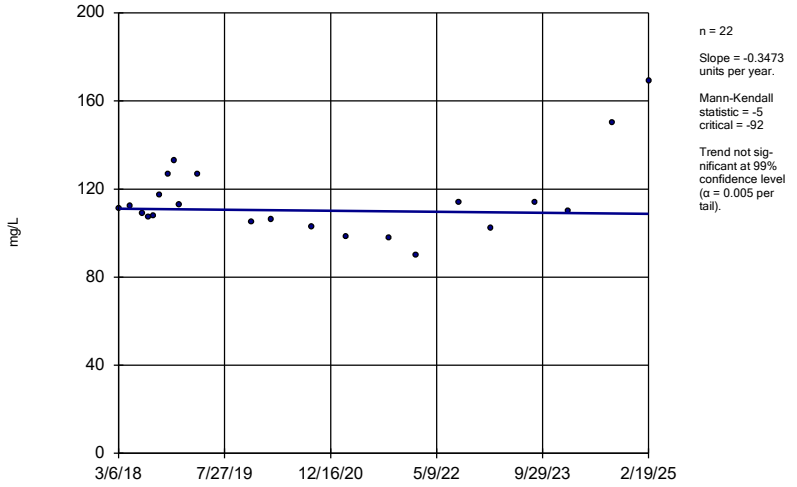
Constituent: Sulfate Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-45



n = 22

Slope = -0.3473 units per year.

Mann-Kendall statistic = -5 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

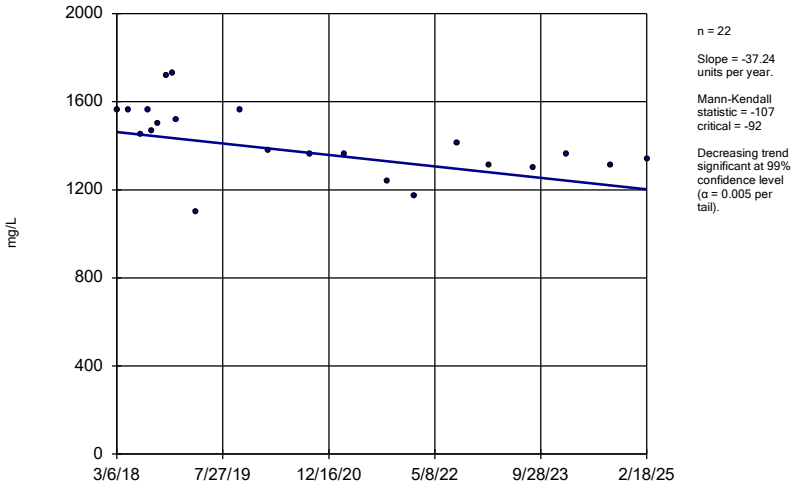
Constituent: Sulfate Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-47



n = 22

Slope = -37.24 units per year.

Mann-Kendall statistic = -107 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

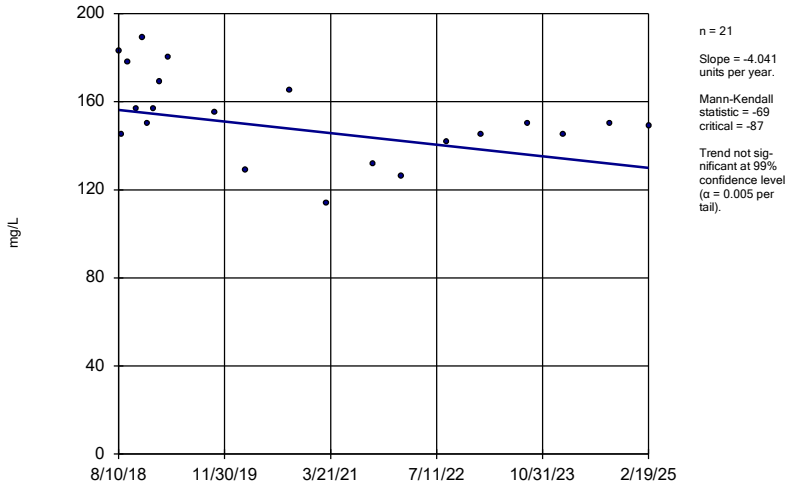
Constituent: Sulfate Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-52I



n = 21

Slope = -4.041 units per year.

Mann-Kendall statistic = -69 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

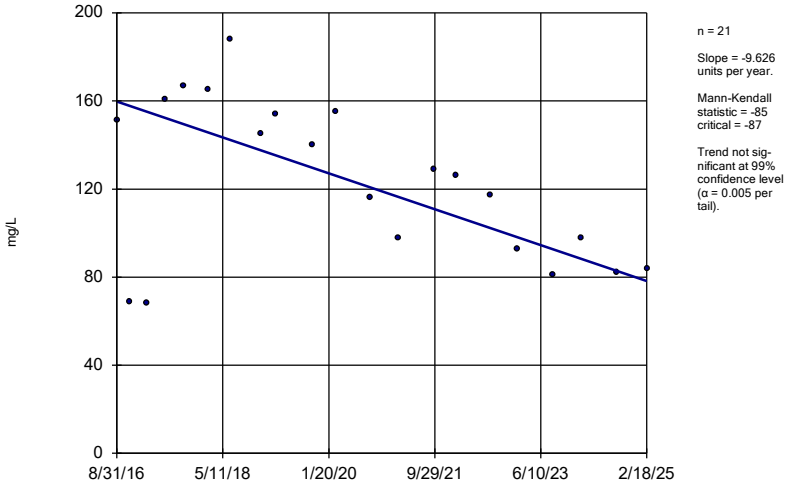
Constituent: Sulfate Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = -9.626 units per year.

Mann-Kendall statistic = -85 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

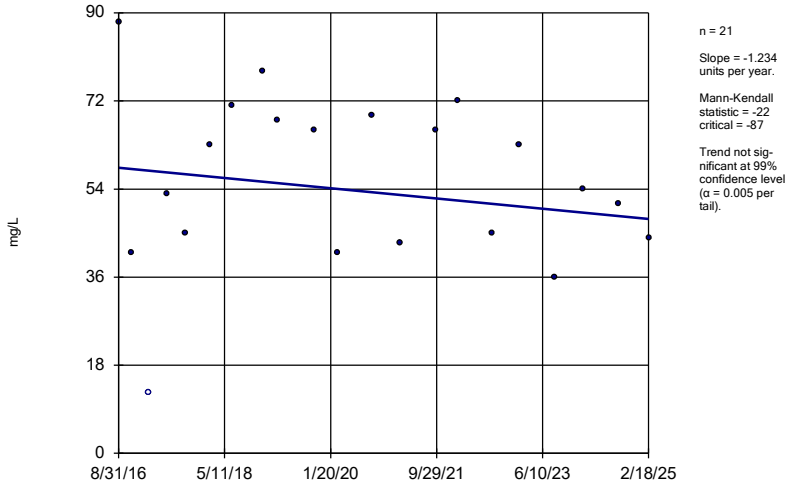
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = -1.234 units per year.

Mann-Kendall statistic = -22 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

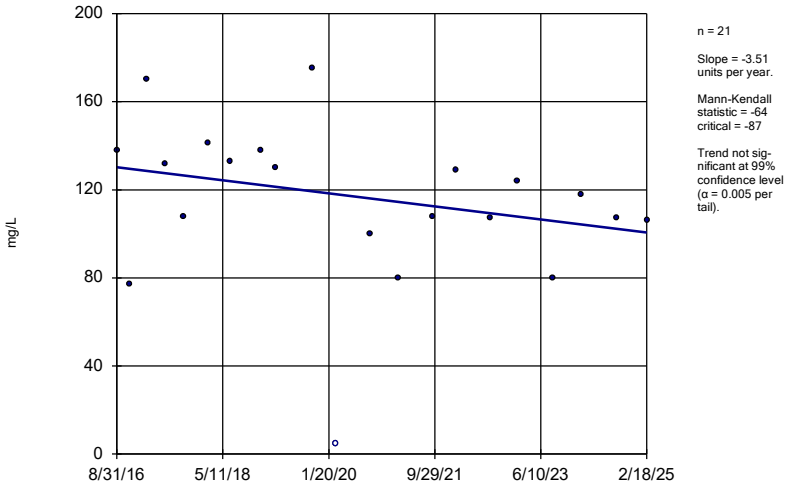
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -3.51 units per year.

Mann-Kendall statistic = -64 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

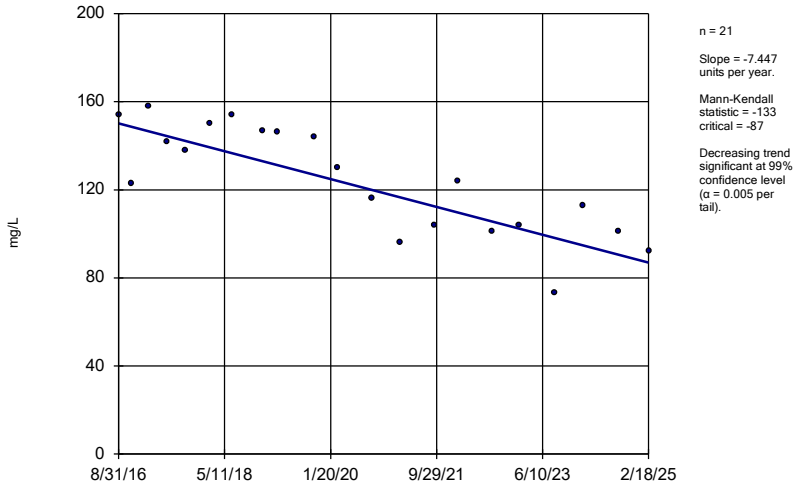
Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -7.447 units per year.

Mann-Kendall statistic = -133 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

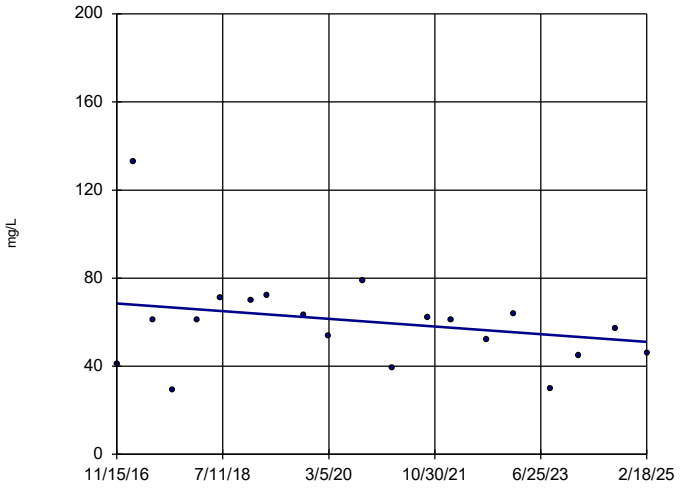
Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = -2.111 units per year.

Mann-Kendall statistic = -39
critical = -81

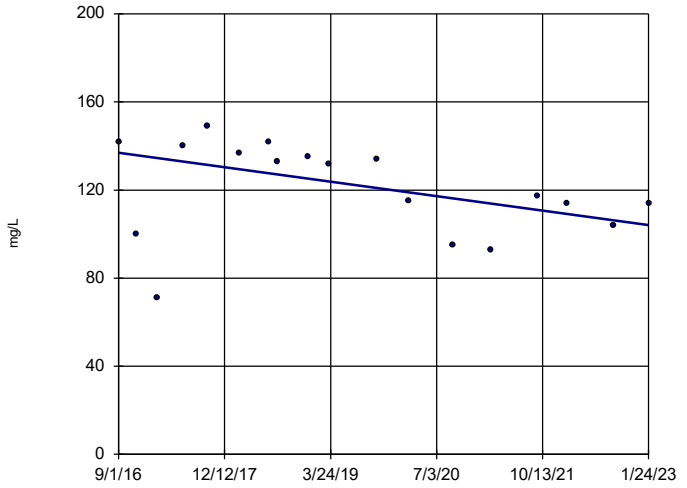
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -5.117 units per year.

Mann-Kendall statistic = -61
critical = -68

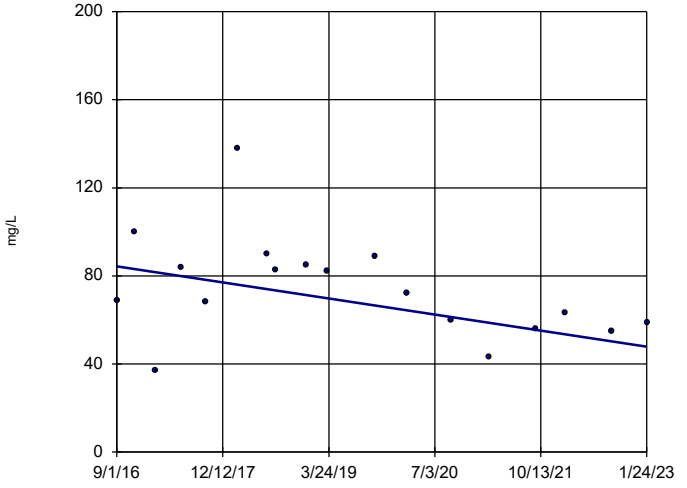
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = -5.699 units per year.

Mann-Kendall statistic = -57
critical = -68

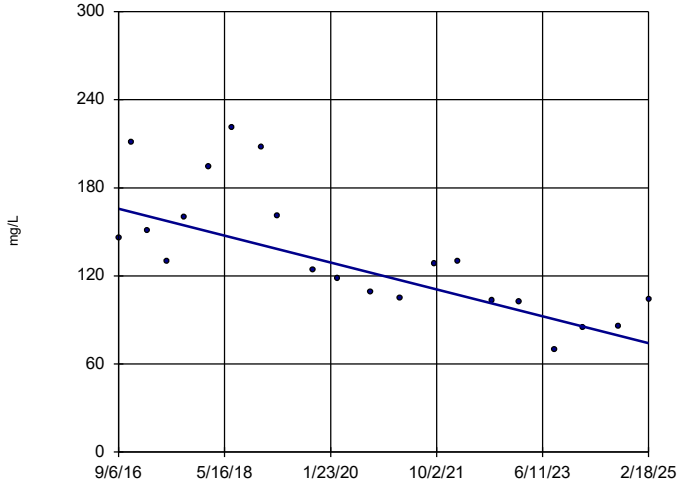
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWA-23S (bg)



n = 21

Slope = -10.83 units per year.

Mann-Kendall statistic = -127
critical = -87

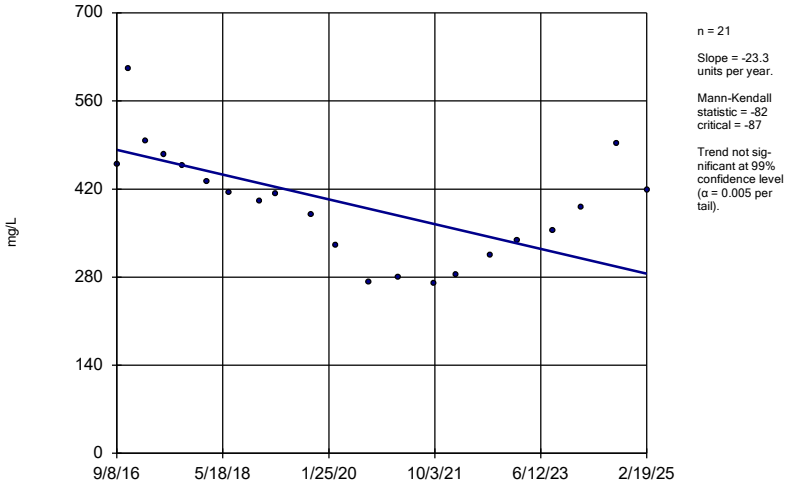
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-25I



n = 21

Slope = -23.3 units per year.

Mann-Kendall statistic = -82 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

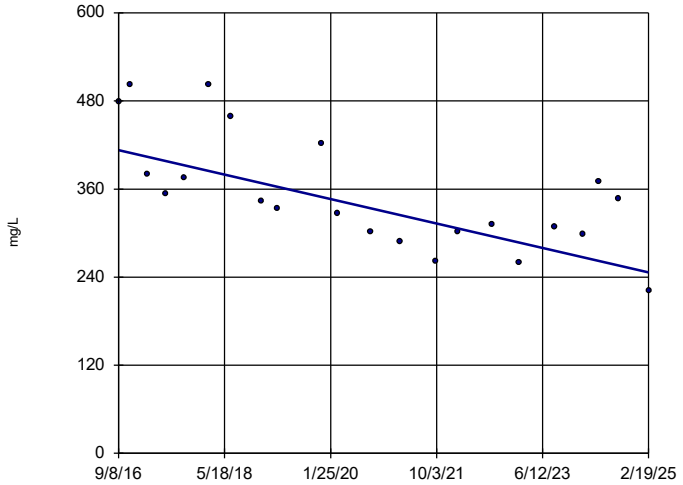
Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Sen's Slope Estimator

BRGWC-27I



n = 22

Slope = -19.7 units per year.

Mann-Kendall statistic = -127 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

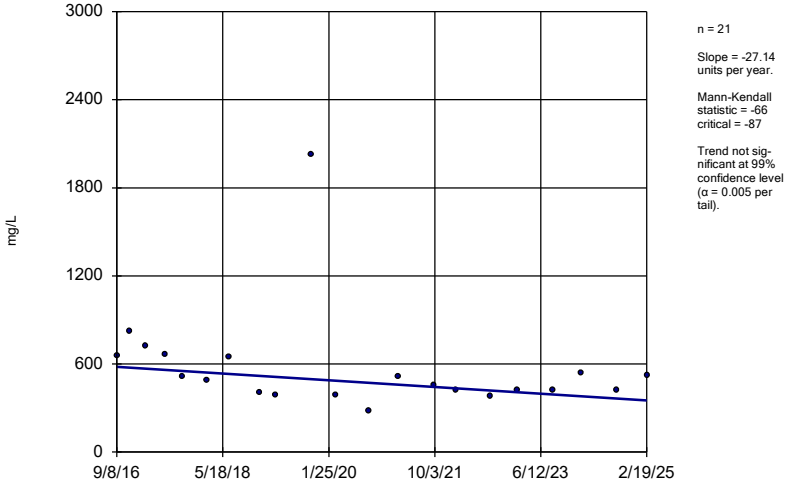
Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-29I



n = 21

Slope = -27.14 units per year.

Mann-Kendall statistic = -66 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

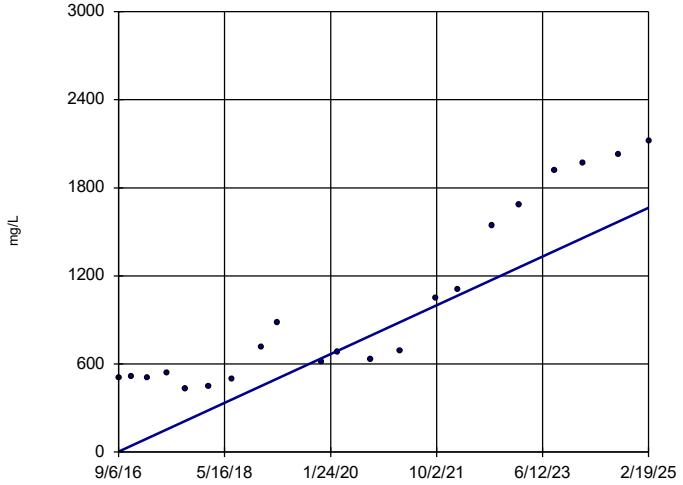
Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-30I



n = 21

Slope = 196.4 units per year.

Mann-Kendall statistic = 164 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

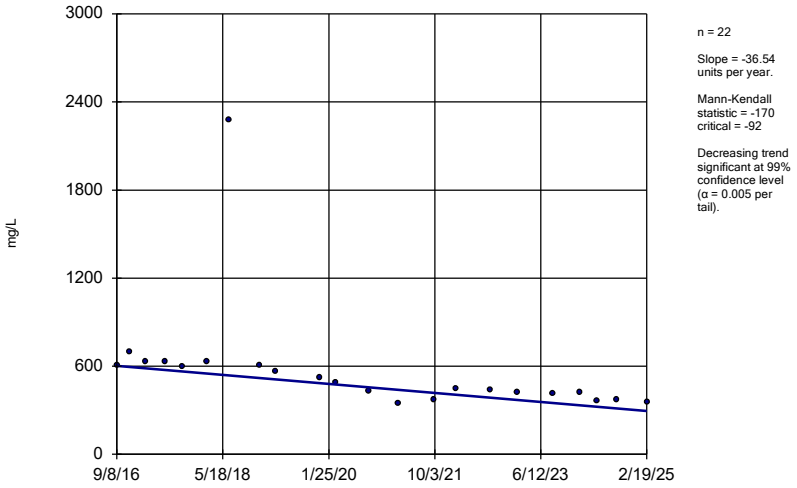
Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-32S



n = 22

Slope = -36.54 units per year.

Mann-Kendall statistic = -170 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

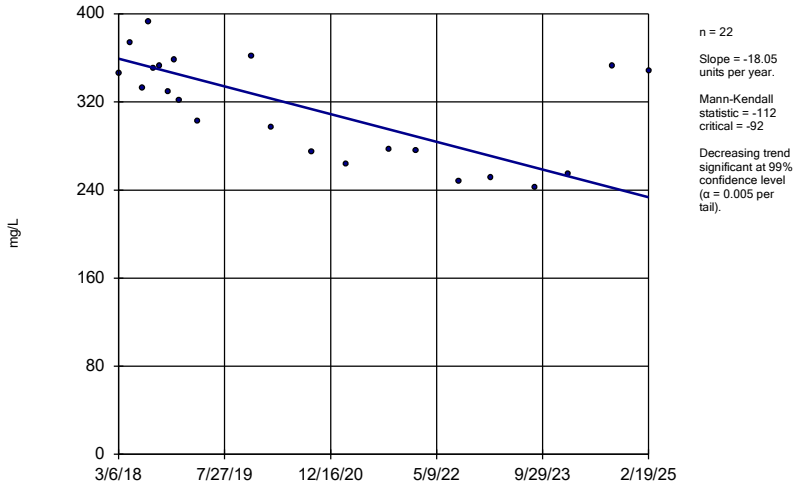
Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-45



n = 22

Slope = -18.05 units per year.

Mann-Kendall statistic = -112 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

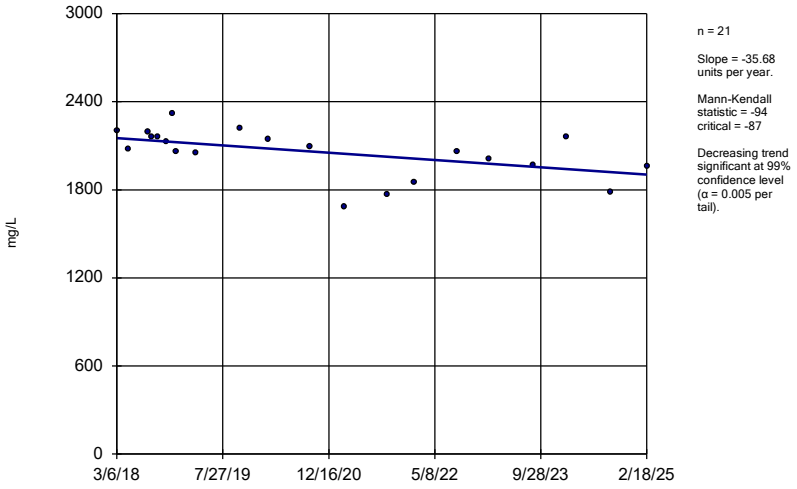
Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-47



n = 21

Slope = -35.68 units per year.

Mann-Kendall statistic = -94 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

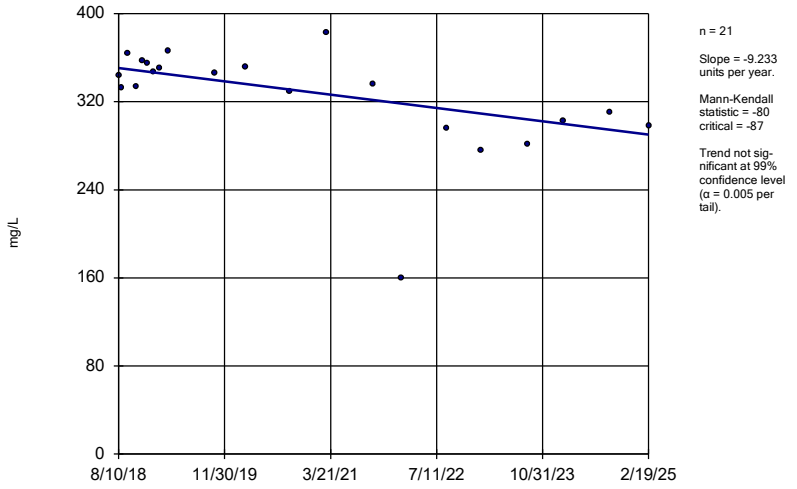
Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-52I



n = 21

Slope = -9.233 units per year.

Mann-Kendall statistic = -80 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 3:22 PM View: Appendix III - Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

FIGURE F.

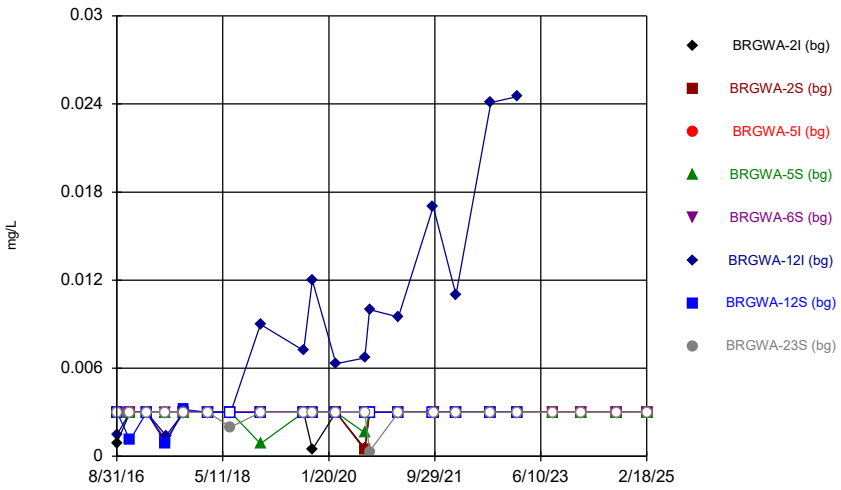
Upper Tolerance Limits

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0245	n/a	n/a	n/a	n/a	168	85.12	n/a	0.000181	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	168	76.79	n/a	0.000181	NP Inter(NDs)
Barium (mg/L)	n/a	0.13	n/a	n/a	n/a	n/a	168	0	n/a	0.000181	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	168	100	n/a	0.000181	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	170	98.82	n/a	0.0001633	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	n/a	168	22.02	n/a	0.000181	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0135	n/a	n/a	n/a	n/a	169	55.03	n/a	0.0001719	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	2.355	n/a	n/a	n/a	n/a	168	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.42	n/a	n/a	n/a	n/a	176	45.45	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	168	89.29	n/a	0.000181	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	n/a	168	42.26	n/a	0.000181	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	n/a	152	90.13	n/a	0.0004111	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.008	n/a	n/a	n/a	n/a	165	73.33	n/a	0.0002111	NP Inter(NDs)
Selenium (mg/L)	n/a	0.006	n/a	n/a	n/a	n/a	168	92.26	n/a	0.000181	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	168	100	n/a	0.000181	NP Inter(NDs)

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Hollow symbols indicate censored values.

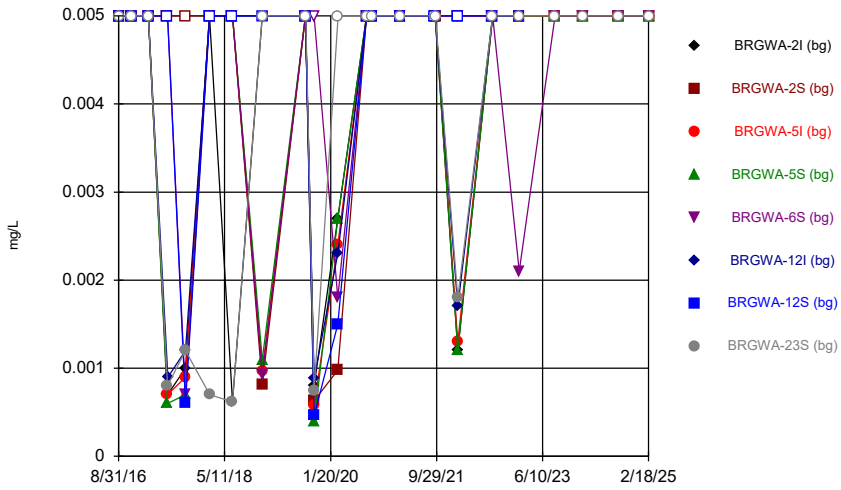
Time Series



Constituent: Antimony Analysis Run 5/20/2025 3:24 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

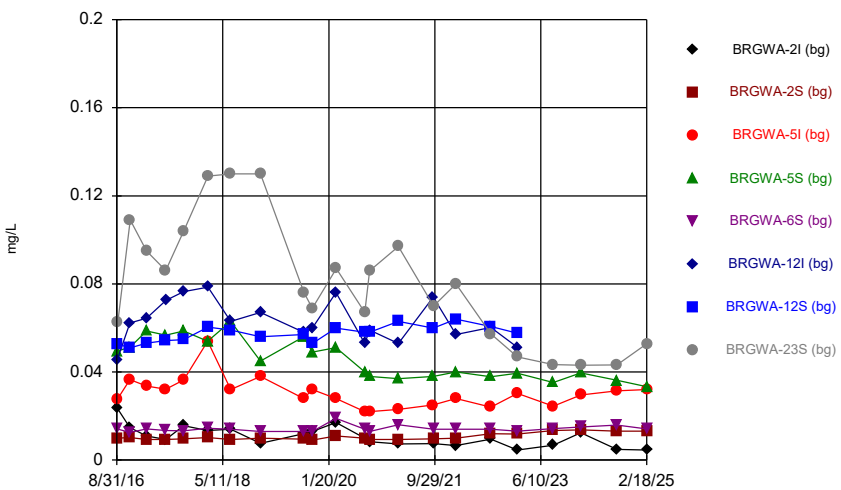
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 3:24 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

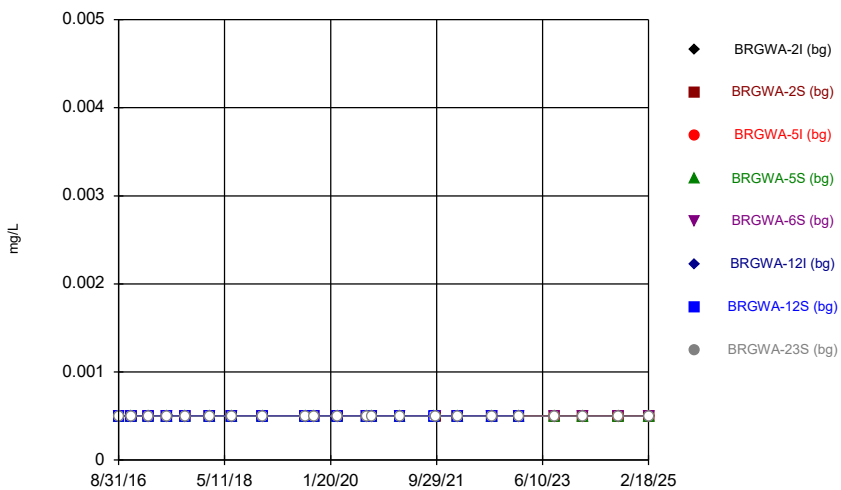
Time Series



Constituent: Barium Analysis Run 5/20/2025 3:24 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

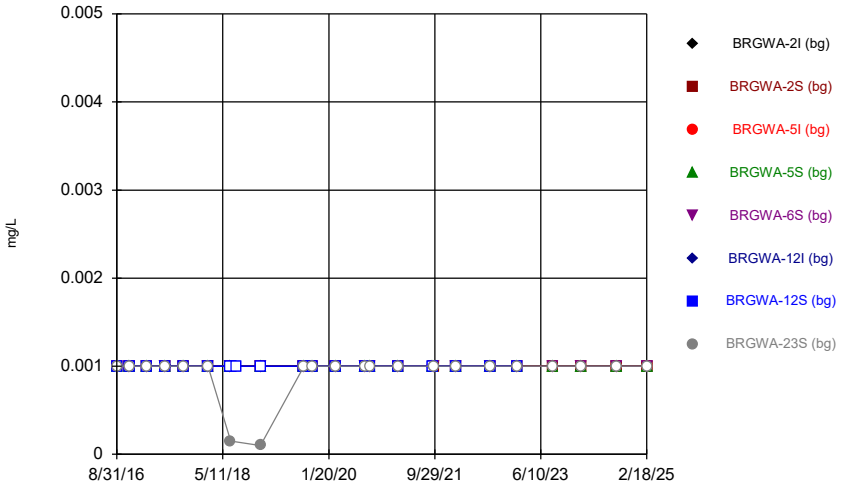
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 3:24 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

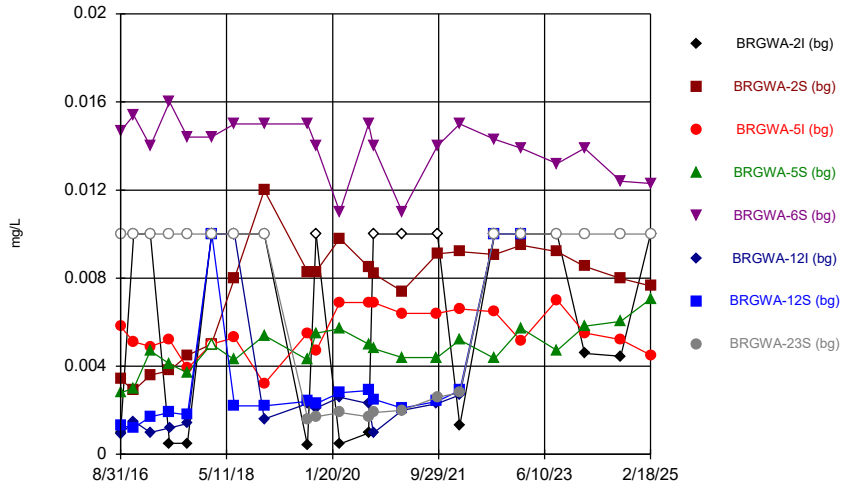
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

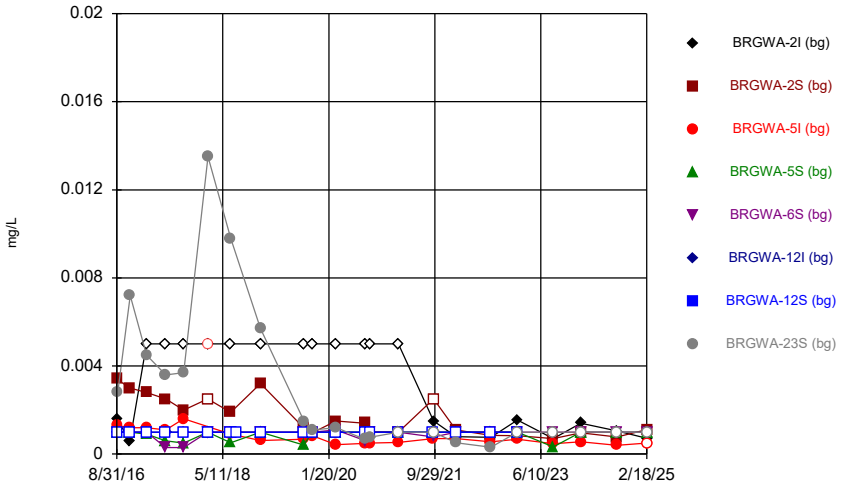
Time Series



Constituent: Chromium Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

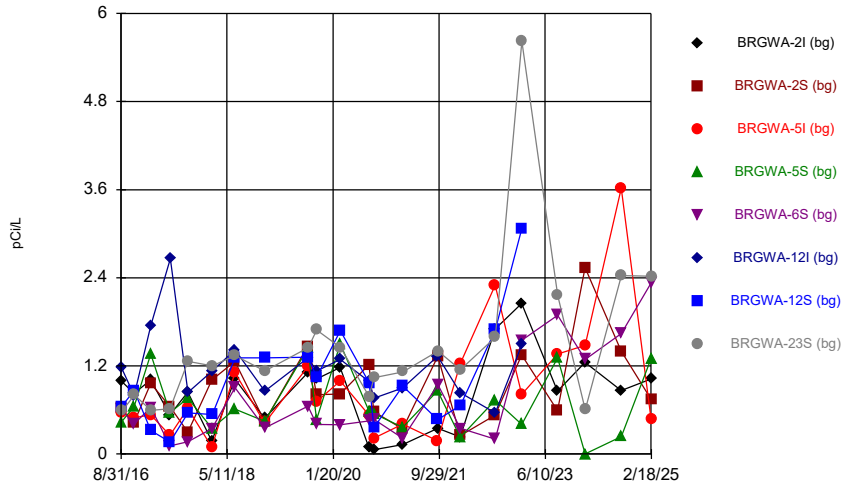
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

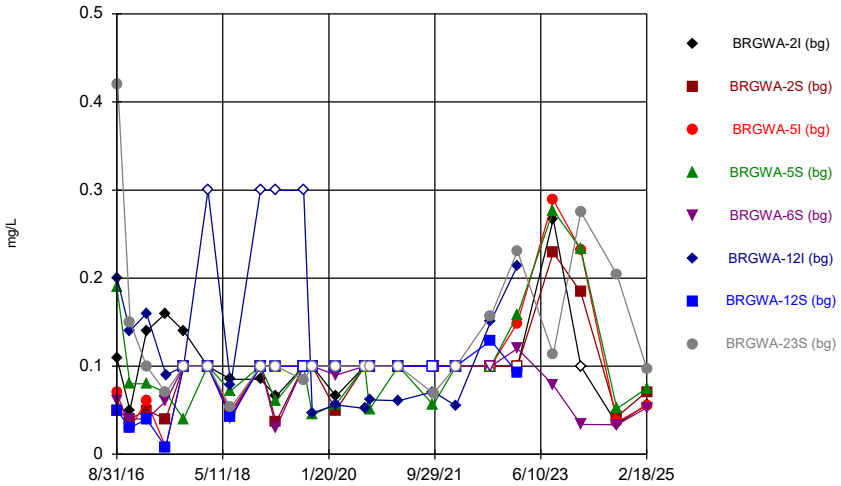
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

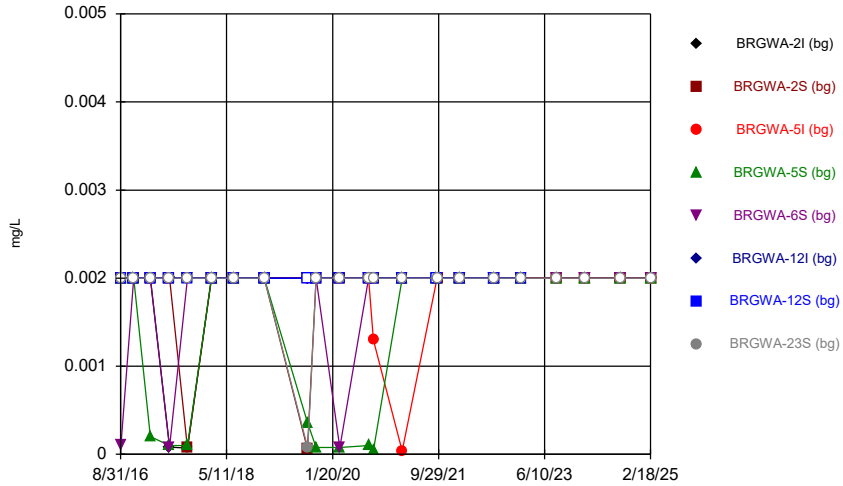
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

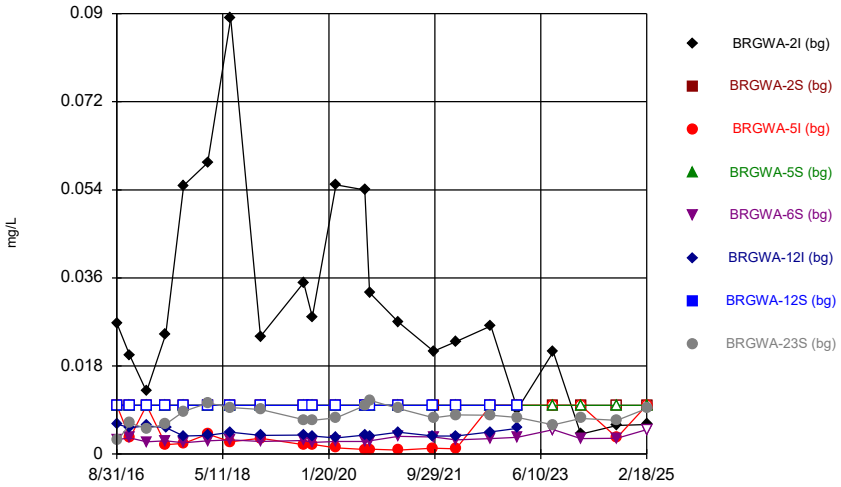
Time Series



Constituent: Lead Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

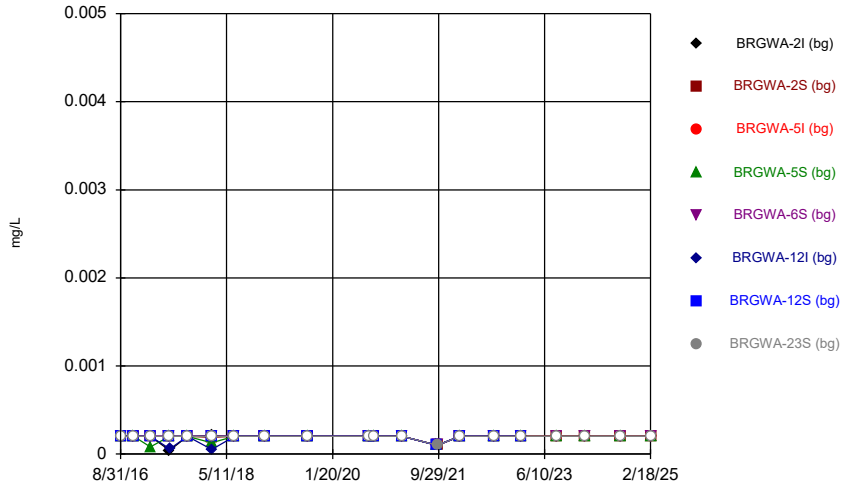
Time Series



Constituent: Lithium Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

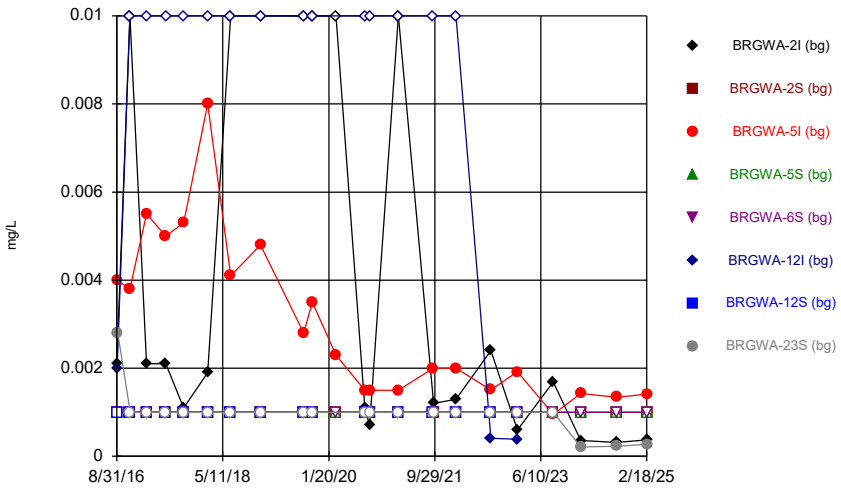
Time Series



Constituent: Mercury Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

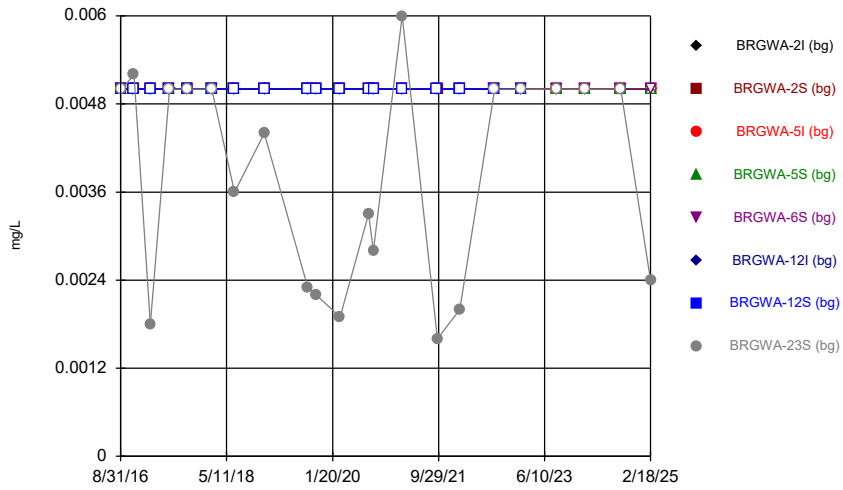
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

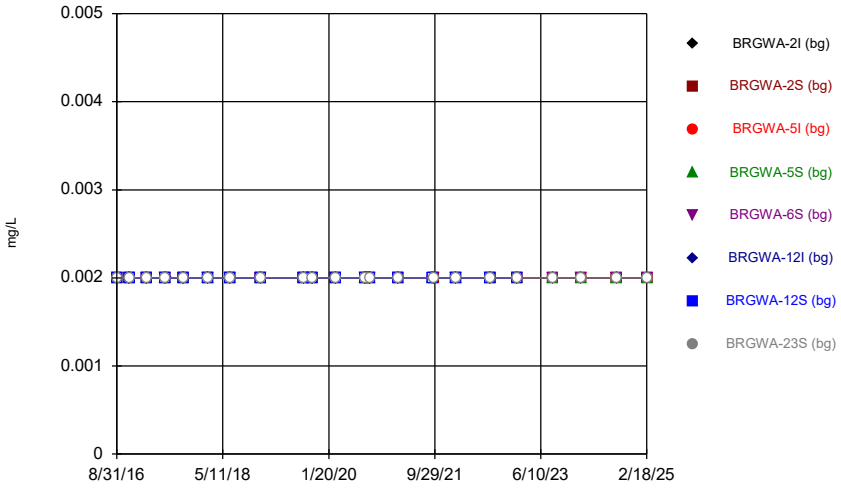
Time Series



Constituent: Selenium Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



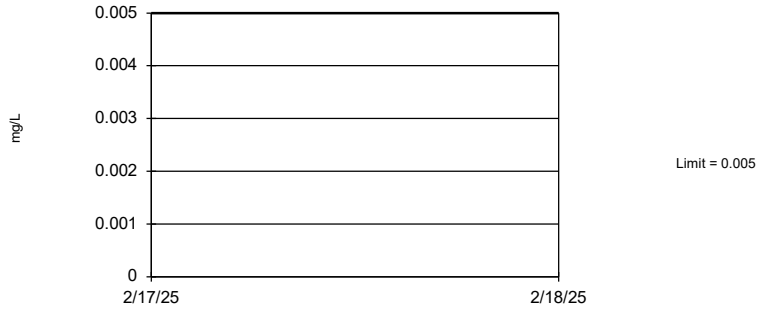
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 168 background values. 85.12% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.000181.

Constituent: Antimony Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



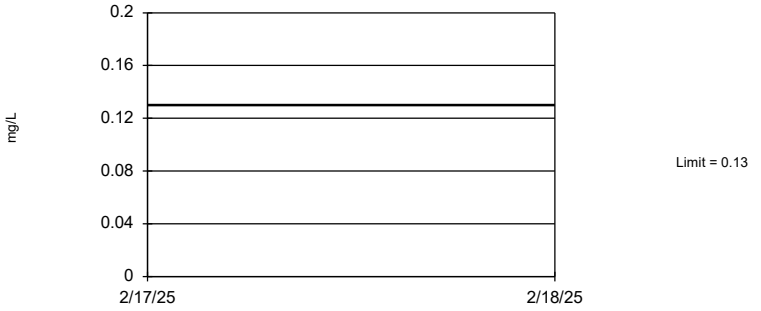
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 168 background values. 76.79% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.000181.

Constituent: Arsenic Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



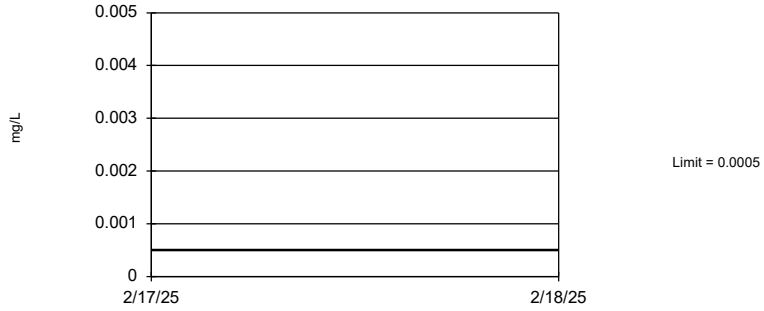
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 168 background values. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.000181.

Constituent: Barium Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.000181.

Constituent: Beryllium Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 170 background values. 98.82% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0001633.

Constituent: Cadmium Analysis Run 5/20/2025 3:25 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



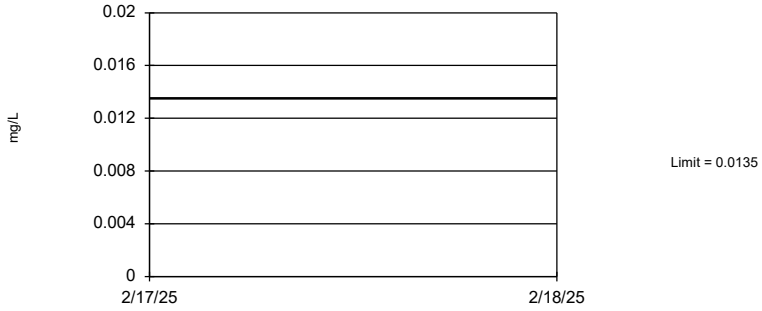
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 168 background values. 22.02% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.000181.

Constituent: Chromium Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 169 background values. 55.03% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0001719.

Constituent: Cobalt Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Parametric



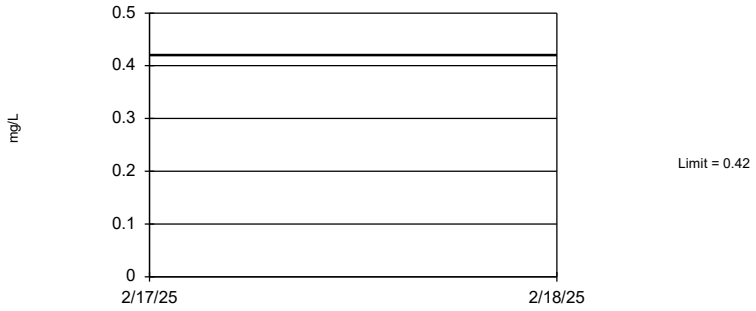
95% coverage. Background Data Summary (based on square root transformation): Mean=0.9181, Std. Dev.=0.3323, n=168. Normality test: Chi Squared @alpha = 0.01, calculated = 6.405, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



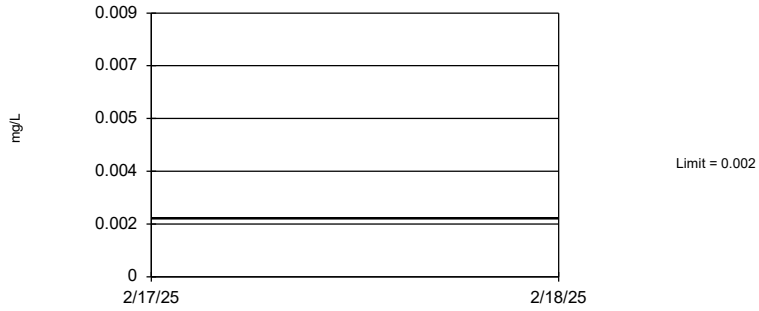
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 176 background values. 45.45% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Tolerance Limit

Interwell Non-parametric



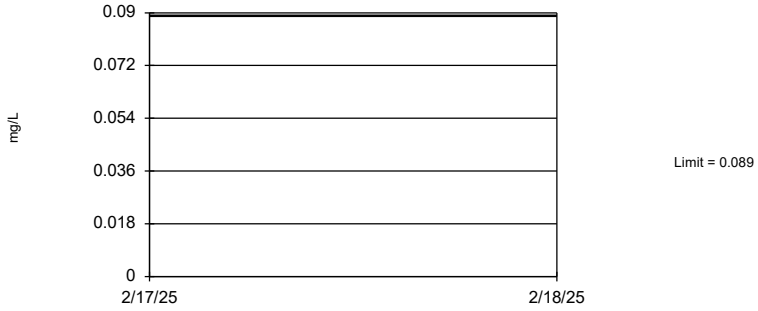
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 168 background values. 89.29% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.000181.

Constituent: Lead Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Tolerance Limit

Interwell Non-parametric



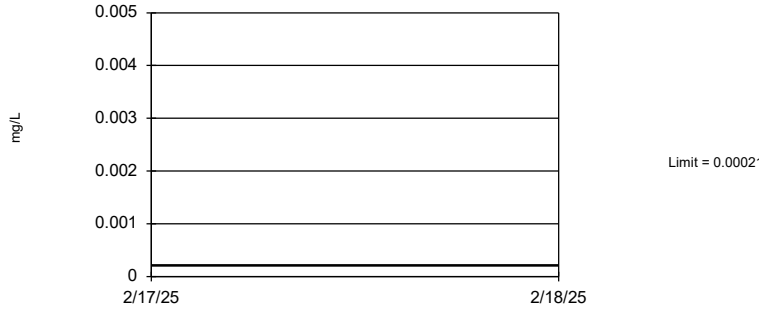
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 168 background values. 42.26% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.000181.

Constituent: Lithium Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 152 background values. 90.13% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0004111.

Constituent: Mercury Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 165 background values. 73.33% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002111.

Constituent: Molybdenum Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Tolerance Limit

Interwell Non-parametric



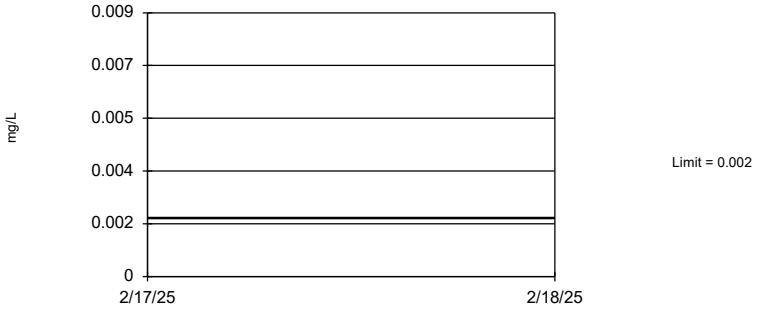
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 168 background values. 92.26% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.000181.

Constituent: Selenium Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.000181.

Constituent: Thallium Analysis Run 5/20/2025 3:26 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

FIGURE G.

PLANT BRANCH POND BCD GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.36	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**PZ-63I**	**0.03742**	**0.02107**	**0.014**	**Yes**	**7**	**0.006884**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**BRGWC-32S**	**0.1729**	**0.1037**	**0.05**	**Yes**	**16**	**0.05314**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**PZ-75I**	**0.1303**	**0.05619**	**0.05**	**Yes**	**5**	**0.02211**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.003	0.0007	0.006	No	22	0.0004904	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.003	0.0013	0.006	No	22	0.0003624	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.003	0.0014	0.006	No	22	0.0003411	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.003	0.0024	0.006	No	23	0.0008192	69.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.003	0.00035	0.006	No	23	0.0005526	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.003	0.00091	0.006	No	22	0.0008014	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-68D	0.003	0.00176	0.006	No	5	0.0005545	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.005	0.00091	0.01	No	22	0.001704	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.005	0.0014	0.01	No	22	0.001573	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.005	0.0019	0.01	No	22	0.001834	68.18	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	22	0.001502	77.27	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.005	0.00053	0.01	No	22	0.000953	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-44	0.005	0.00221	0.01	No	10	0.001487	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.005	0.0018	0.01	No	23	0.001816	65.22	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.002416	0.001286	0.01	No	23	0.001744	34.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BRGWC-52I	0.005	0.0031	0.01	No	22	0.001409	54.55	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-68D	0.0058	0.00342	0.01	No	5	0.0008681	60	None	No	0.031	NP (NDs)
Barium (mg/L)	BRGWC-25I	0.033	0.02662	2	No	22	0.006345	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01688	0.01527	2	No	22	0.001497	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01877	0.01698	2	No	22	0.001669	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03167	0.02452	2	No	22	0.00666	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.03767	0.02446	2	No	22	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-44	0.05411	0.04885	2	No	10	0.002951	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.08791	0.06897	2	No	23	0.01811	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.03928	0.03156	2	No	23	0.007379	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02926	0.01894	2	No	22	0.009604	0	None	No	0.01	Param.
Barium (mg/L)	PZ-68D	0.146	0.0591	2	No	5	0.02593	0	None	No	0.01	Param.
Barium (mg/L)	PZ-74I	0.0588	0.01333	2	No	5	0.01496	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-75I	0.06065	0.0185	2	No	4	0.009281	0	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-27I	0.0005	0.00011	0.004	No	23	0.0001813	34.78	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.00109	0.0008439	0.004	No	22	0.0002288	4.545	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0005	0.000079	0.004	No	24	0.0001236	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0005	0.00006	0.004	No	23	0.0001727	82.61	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-27I	0.001	0.00009	0.005	No	23	0.0002651	91.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.001	0.00014	0.005	No	23	0.0002566	91.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-32S	0.001	0.00012	0.005	No	23	0.0003479	82.61	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.001	0.00029	0.005	No	24	0.0003469	79.17	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.001	0.00018	0.005	No	23	0.0004199	56.52	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-25I	0.01	0.0016	0.1	No	22	0.002565	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-27I	0.01	0.003	0.1	No	22	0.002374	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-29I	0.02	0.01	0.1	No	22	0.002132	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-30I	0.014	0.0051	0.1	No	22	0.00138	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.01	0.0019	0.1	No	22	0.004263	50	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.01	0.0014	0.1	No	23	0.00311	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.01	0.0018	0.1	No	23	0.00348	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-52I	0.01	0.0017	0.1	No	22	0.00177	95.45	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-25I	0.005631	0.003468	0.014	No	22	0.002149	4.545	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-27I	0.00965	0.006652	0.014	No	23	0.002867	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-29I	0.009129	0.006725	0.014	No	22	0.002375	4.545	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-30I	0.00163	0.001	0.014	No	23	0.006465	13.04	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.0025	0.001	0.014	No	23	0.0003128	91.3	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-44	0.001	0.001	0.014	No	10	0.0001872	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01196	0.004379	0.014	No	24	0.01349	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.001007	0.0004204	0.014	No	23	0.001548	39.13	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-52I	0.0012	0.00063	0.014	No	22	0.0008989	59.09	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**PZ-63I**	**0.03742**	**0.02107**	**0.014**	**Yes**	**7**	**0.006884**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-68D	0.001162	0.0003247	0.014	No	5	0.0002499	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-74I	0.002303	0.0002187	0.014	No	5	0.0007896	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	PZ-75I	0.001094	0	0.014	No	4	0.0002499	50	Kaplan-Meier	x^5	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-25I	2.136	0.7817	5	No	22	1.543	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-27I	1.659	0.805	5	No	22	0.7952	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-29I	2.04	1.306	5	No	22	0.6839	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-30I	1.857	0.8121	5	No	22	1.12	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.374	0.6042	5	No	22	0.7171	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-44	2.146	0.3744	5	No	10	1.077	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	1.054	0.4636	5	No	23	0.6503	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.949	0.9972	5	No	23	0.9103	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-52I	4.254	1.68	5	No	22	3.162	0	None	sqrt(x)	0.01	Param.

Confidence Interval Summary Table - All Results

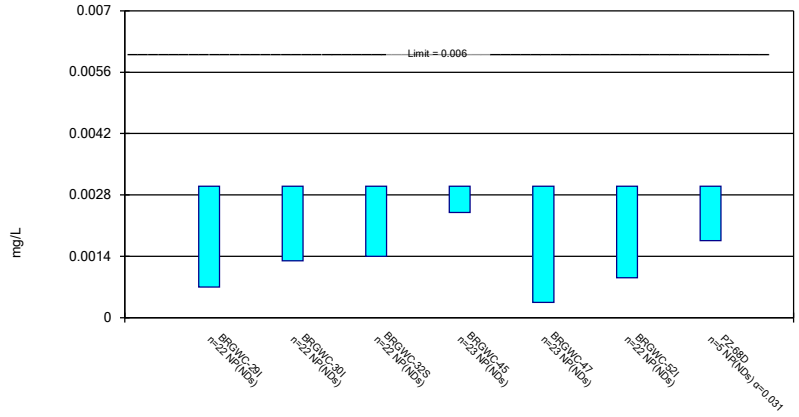
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	PZ-68D	5.851	0.2131	5	No	5	1.682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-74I	7.656	0.1821	5	No	5	3.148	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-75I	3.554	1.796	5	No	4	0.3873	0	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-25I	0.2476	0.1552	4	No	23	0.1185	4.348	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-27I	0.267	0.177	4	No	24	0.08816	8.333	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-29I	0.1828	0.09762	4	No	23	0.1119	8.696	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-30I	0.3105	0.148	4	No	23	0.1927	4.348	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.082	4	No	24	0.04291	45.83	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-44	0.2034	0.1006	4	No	10	0.08271	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BRGWC-45	0.163	0.078	4	No	24	0.2058	41.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.27	0.189	4	No	24	0.239	45.83	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-52I	0.2164	0.1386	4	No	22	0.07243	4.545	None	No	0.01	Param.
Fluoride (mg/L)	PZ-68D	0.2421	0.1003	4	No	5	0.04229	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-74I	0.2452	0.04471	4	No	5	0.05983	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-75I	0.1839	0.06942	4	No	5	0.03415	0	None	No	0.01	Param.
Lead (mg/L)	BRGWC-25I	0.002	0.00011	0.015	No	22	0.0004029	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.002	0.000063	0.015	No	22	0.000413	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.002	0.0003	0.015	No	21	0.0008126	38.1	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-30I	0.002	0.00011	0.015	No	22	0.0004029	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.002	0.000595	0.015	No	23	0.0006721	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.002	0.00012	0.015	No	23	0.0006619	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.002	0.000042	0.015	No	22	0.0004174	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-68D	0.002	0.000504	0.015	No	5	0.000669	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.01	0.0014	0.089	No	22	0.004198	36.36	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-29I	0.003684	0.003094	0.089	No	22	0.0005493	4.545	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.02124	0.01399	0.089	No	22	0.007052	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.00514	0.0021	0.089	No	22	0.006599	9.091	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-44	0.006445	0.004949	0.089	No	10	0.0008378	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-45	0.0043	0.003	0.089	No	22	0.002944	22.73	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-47	0.04552	0.04159	0.089	No	23	0.00376	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.01013	0.004516	0.089	No	22	0.006026	4.545	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	PZ-68D	0.009258	0.003217	0.089	No	5	0.002466	20	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	PZ-74I	0.00825	0.00692	0.089	No	5	0.0005531	0	None	No	0.031	NP (normality)
Lithium (mg/L)	PZ-75I	0.006613	0.002277	0.089	No	4	0.0009549	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.0002	0.000083	0.002	No	20	0.0000432	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.0002	0.00005	0.002	No	20	0.00004663	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.000384	0.000098	0.002	No	20	0.000148	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.0002	0.000082	0.002	No	20	0.00005032	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.0002	0.0001	0.002	No	20	0.00004016	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-74I	0.0002	0.000121	0.002	No	5	0.00003533	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.00092	0.1	No	21	0.004589	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BRGWC-27I	0.001	0.000213	0.1	No	21	0.000237	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.00123	0.1	No	21	0.00446	52.38	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.001	0.00076	0.1	No	22	0.00028	72.73	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	22	0.00443	72.73	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.0007	0.1	No	21	0.004172	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-68D	0.0111	0.00598	0.1	No	5	0.002165	0	None	No	0.031	NP (normality)
Molybdenum (mg/L)	PZ-74I	0.00276	0.000597	0.1	No	5	0.0008503	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BRGWC-25I	0.005	0.00217	0.05	No	22	0.0008431	90.91	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.005	0.0031	0.05	No	22	0.001197	45.45	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0045	0.05	No	22	0.0013	54.55	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.005	0.0045	0.05	No	22	0.0008371	77.27	None	No	0.01	NP (NDs)
Selenium (mg/L)	**BRGWC-32S**	**0.1729**	**0.1037**	**0.05**	**Yes**	**16**	**0.05314**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	BRGWC-44	0.005	0.005	0.05	No	10	0.0009424	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	BRGWC-45	0.005	0.0029	0.05	No	23	0.000686	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.005	0.0024	0.05	No	23	0.001432	69.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-52I	0.005	0.00198	0.05	No	22	0.0006439	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-68D	0.005	0.00205	0.05	No	5	0.001319	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	PZ-74I	0.07332	0.0214	0.05	No	5	0.01549	0	None	No	0.01	Param.
Selenium (mg/L)	**PZ-75I**	**0.1303**	**0.05619**	**0.05**	**Yes**	**5**	**0.02211**	**0**	**None**	**No**	**0.01**	**Param.**
Thallium (mg/L)	BRGWC-29I	0.002	0.00017	0.002	No	22	0.0009167	40.91	None	No	0.01	NP (normality)

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

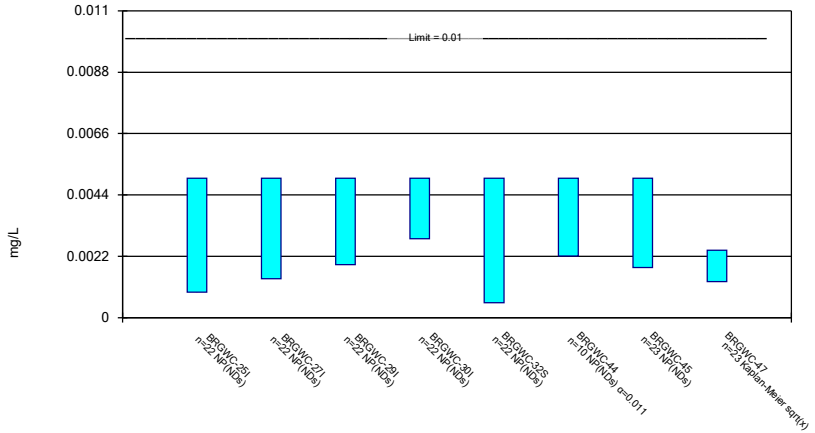


Constituent: Antimony Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

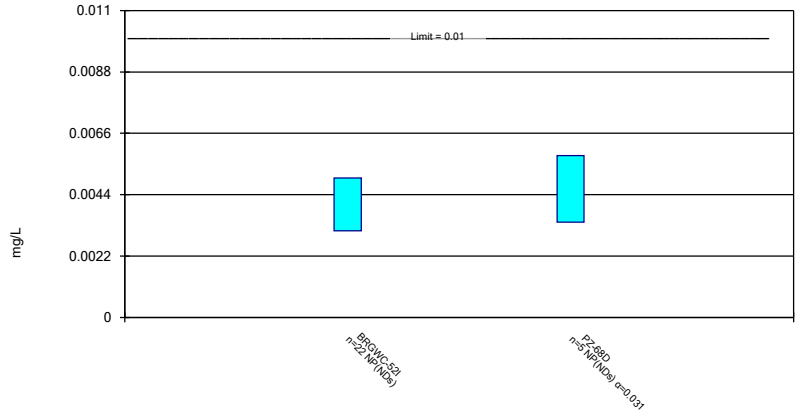


Constituent: Arsenic Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

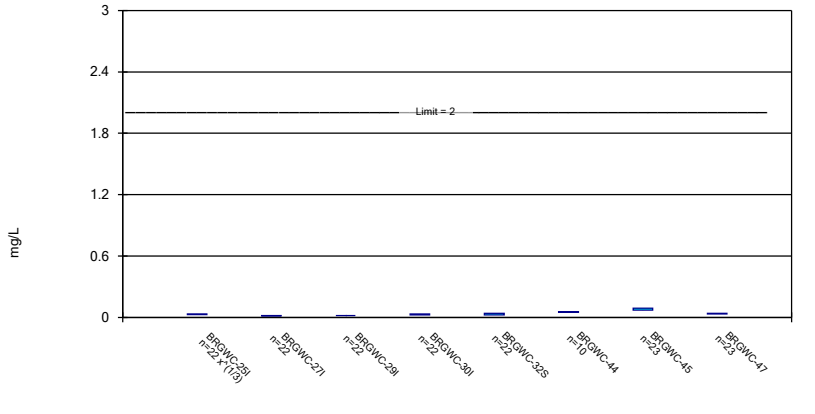


Constituent: Arsenic Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

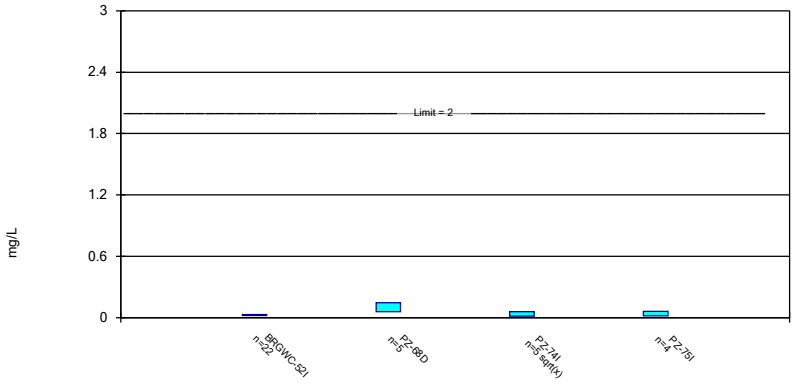


Constituent: Barium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

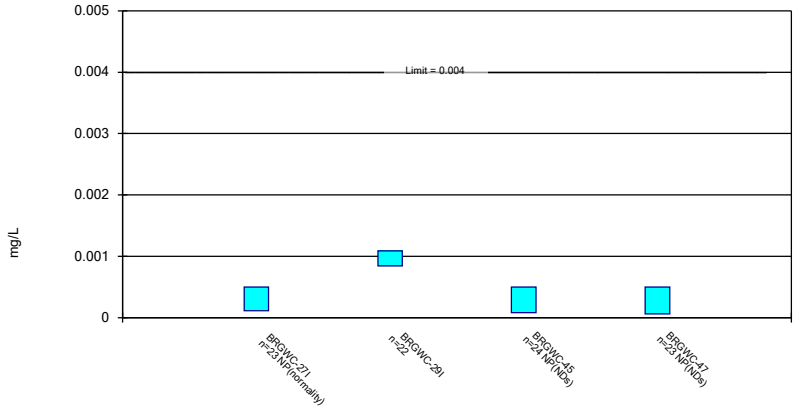


Constituent: Barium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

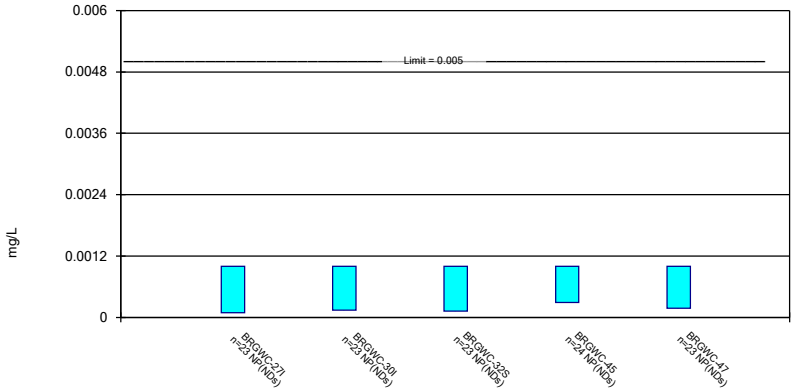


Constituent: Beryllium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

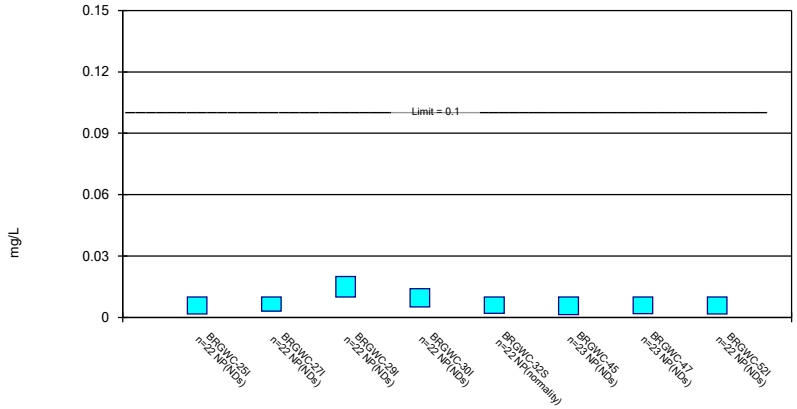


Constituent: Cadmium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

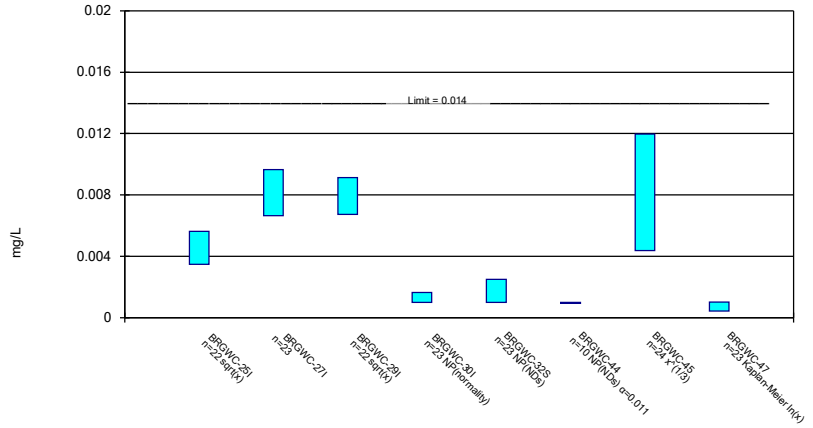


Constituent: Chromium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

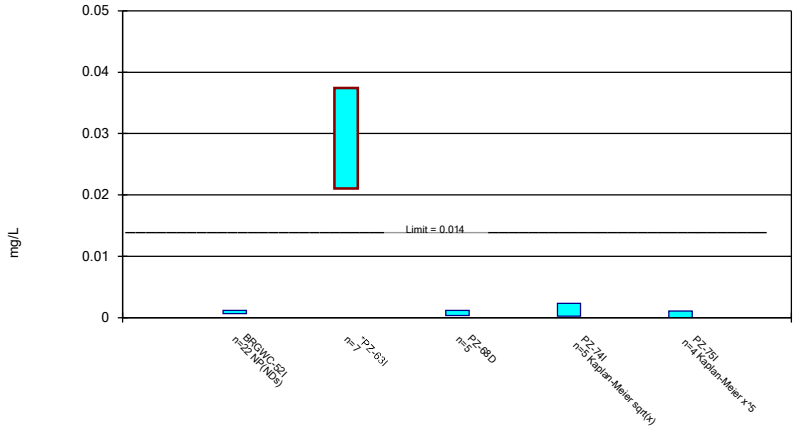


Constituent: Cobalt Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

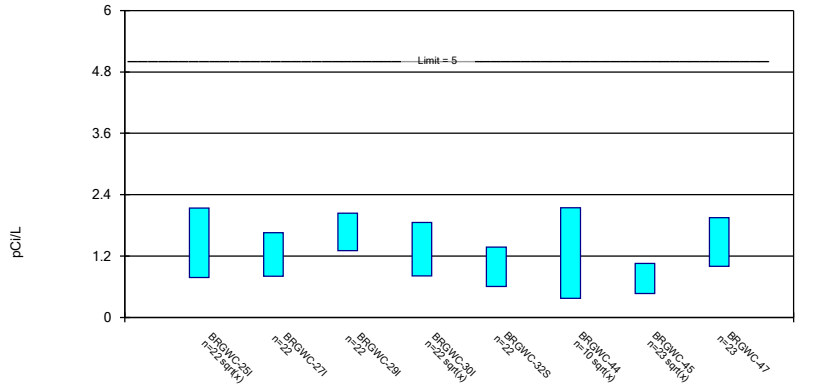


Constituent: Cobalt Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

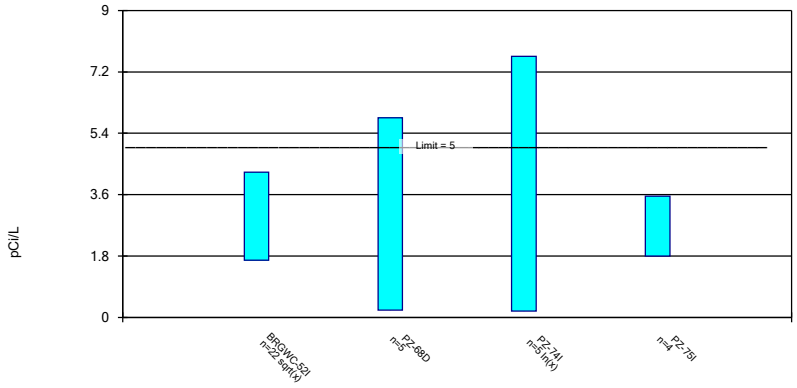


Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

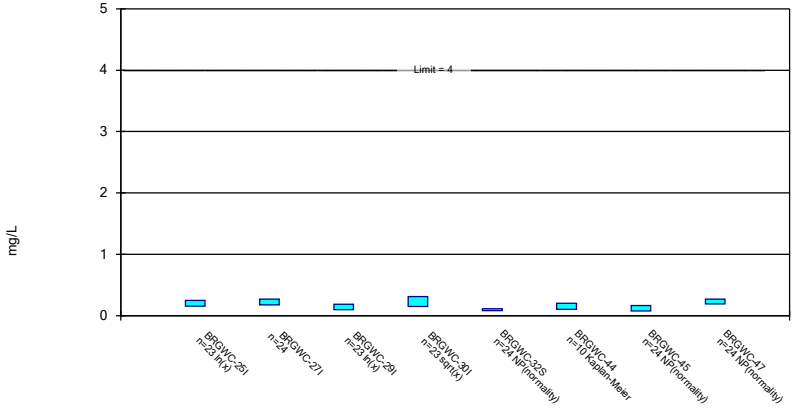


Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

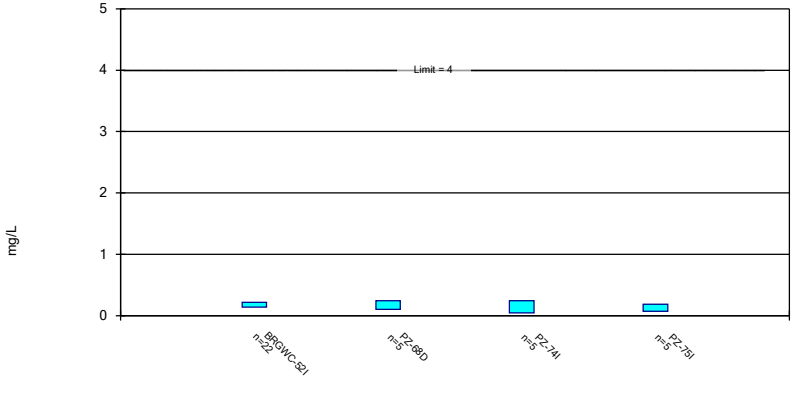


Constituent: Fluoride Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

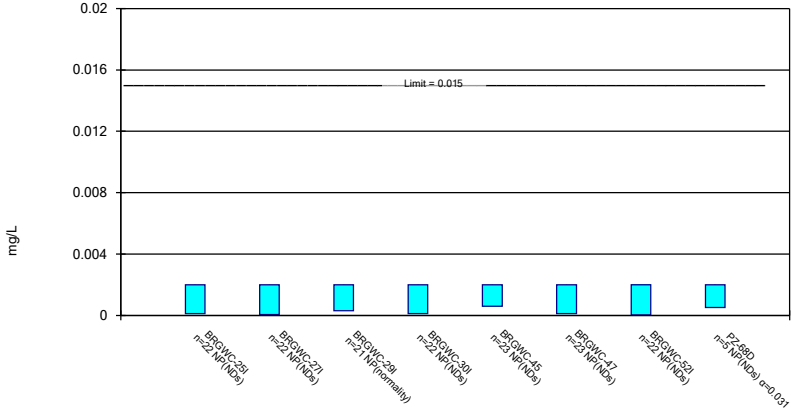


Constituent: Fluoride Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

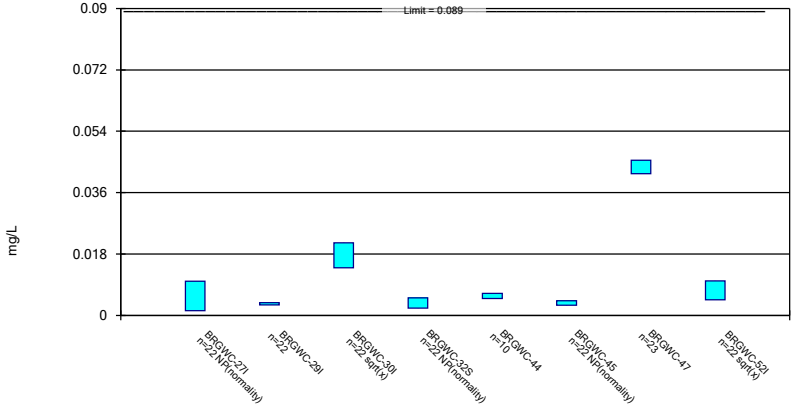


Constituent: Lead Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

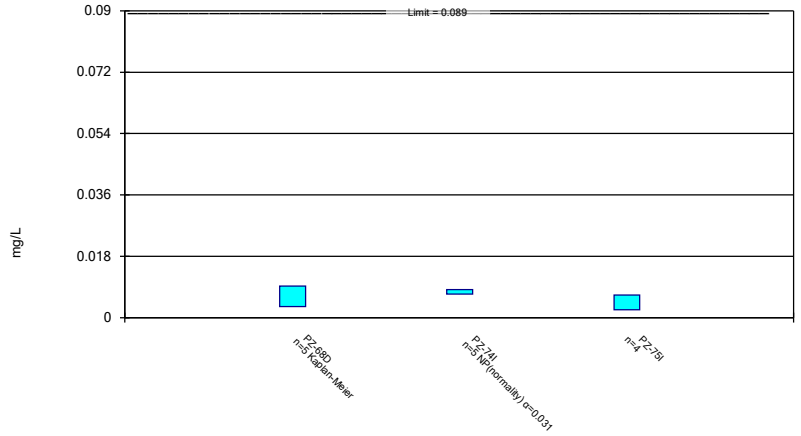


Constituent: Lithium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

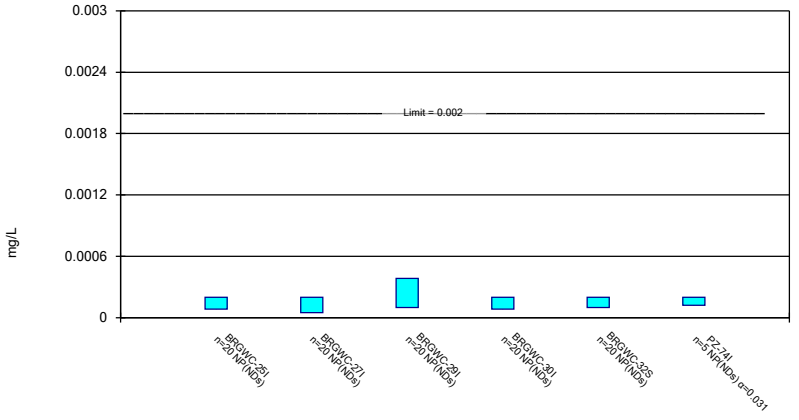


Constituent: Lithium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

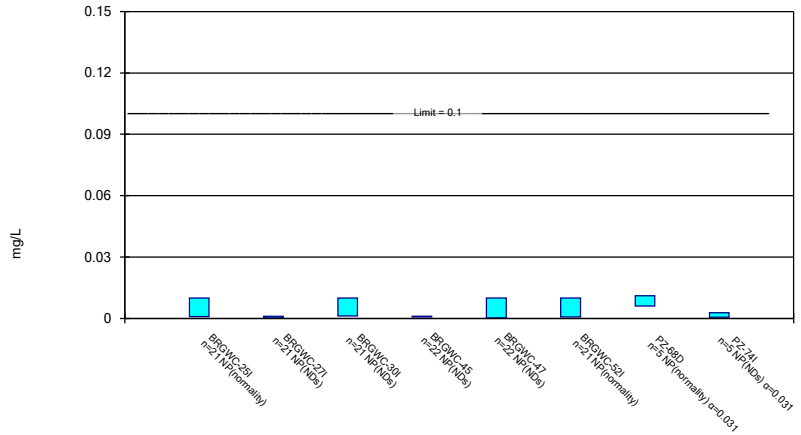


Constituent: Mercury Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

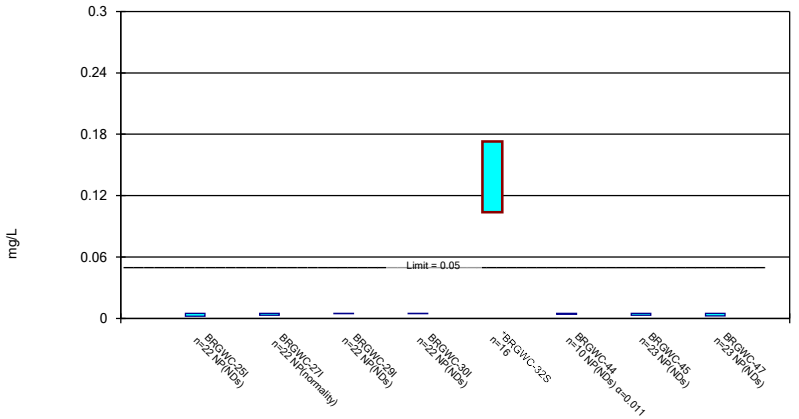


Constituent: Molybdenum Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

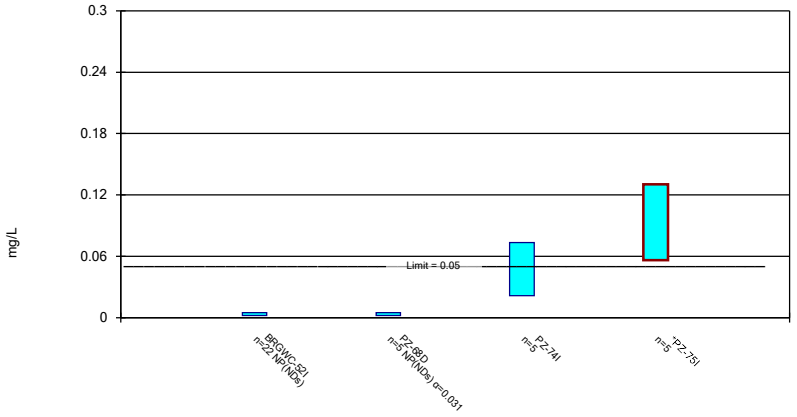


Constituent: Selenium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

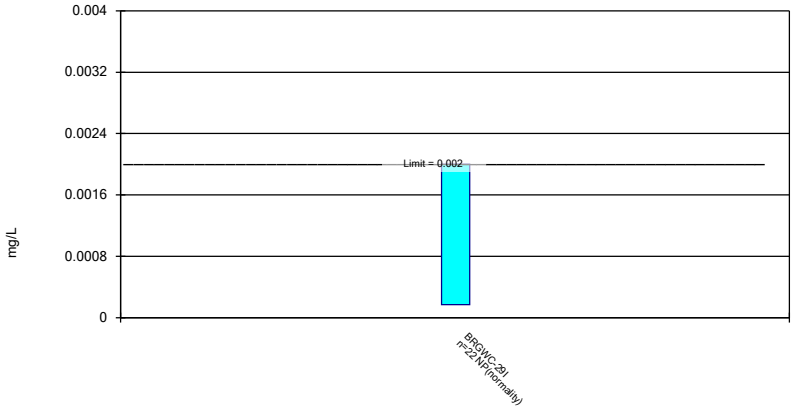


Constituent: Selenium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/20/2025 3:43 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
9/6/2016		<0.003					
9/8/2016	<0.003		<0.003				
11/21/2016	<0.003	<0.003	<0.003				
2/22/2017	<0.003	<0.003	<0.003				
6/14/2017	0.0007 (J)	<0.003	<0.003				
9/27/2017	<0.003	<0.003	<0.003				
2/14/2018	<0.003	<0.003	<0.003				
3/6/2018				<0.003	<0.003		
5/1/2018				<0.003	<0.003		
6/27/2018	<0.003		<0.003		<0.003		
6/28/2018		<0.003		<0.003			
7/31/2018				<0.003			
8/1/2018					<0.003		
8/10/2018						<0.003	
8/23/2018				<0.003	<0.003	0.00085 (J)	
9/19/2018				<0.003	<0.003	<0.003	
10/29/2018				<0.003	<0.003	<0.003	
11/28/2018				<0.003	<0.003	<0.003	
12/18/2018	<0.003	<0.003					
12/19/2018			<0.003		<0.003		
12/20/2018				0.0024 (J)		<0.003	
1/17/2019						<0.003	
2/13/2019						<0.003	
8/27/2019		<0.003	<0.003				
8/28/2019	<0.003			0.00046 (J)	<0.003		
8/29/2019						<0.003	
10/16/2019	<0.003				<0.003	<0.003	
12/3/2019				0.00088 (J)			
12/4/2019		<0.003	<0.003				
3/4/2020	<0.003				<0.003	0.00043 (J)	
3/5/2020		<0.003	0.0014 (J)	0.0016 (J)			
8/19/2020	<0.003	<0.003	<0.003				
8/20/2020				0.0031	<0.003	<0.003	
9/15/2020	<0.003						
9/16/2020		<0.003	<0.003	0.0012 (J)	0.00035 (J)		
9/17/2020						<0.003	
3/2/2021				0.0014 (J)	<0.003		
3/3/2021	<0.003	<0.003					
3/4/2021			<0.003			0.00091 (J)	
9/23/2021				<0.003	<0.003		
9/28/2021	<0.003	<0.003	<0.003			<0.003	
2/2/2022		0.0013 (J)	<0.003	<0.003	<0.003	<0.003	
2/3/2022	<0.003						
8/23/2022					<0.003		
8/24/2022	<0.003	<0.003					
8/25/2022			<0.003	<0.003		<0.003	
1/24/2023			<0.003				
1/25/2023				<0.003		<0.003	
1/26/2023	<0.003	<0.003			<0.003		
2/1/2023							0.00176 (J)
8/22/2023		<0.003	<0.003				
8/23/2023							<0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
8/24/2023	<0.003			<0.003	<0.003	<0.003	
1/30/2024		<0.003	<0.003		<0.003		
1/31/2024	<0.003						
2/1/2024				<0.003		<0.003	<0.003
8/27/2024	<0.003						
8/28/2024		<0.003	<0.003		<0.003	<0.003	
8/29/2024				<0.003			<0.003
2/18/2025					<0.003		
2/19/2025	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
Mean	0.002895	0.002923	0.002927	0.002567	0.002885	0.00269	0.002752
Std. Dev.	0.0004904	0.0003624	0.0003411	0.0008192	0.0005526	0.0008014	0.0005545
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0007	0.0013	0.0014	0.0024	0.00035	0.00091	0.00176

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
9/6/2016				<0.005				
9/8/2016	<0.005	<0.005	<0.005		<0.005			
11/17/2016	<0.005							
11/18/2016		<0.005						
11/21/2016			0.0019 (J)	<0.005	<0.005			
2/21/2017	<0.005	<0.005						
2/22/2017			<0.005	<0.005	<0.005			
6/13/2017	0.0006 (J)	0.0009 (J)						
6/14/2017			0.002 (J)	<0.005	<0.005			
9/27/2017	<0.005	0.0007 (J)	0.0016 (J)	<0.005	<0.005			
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
3/6/2018						0.00082 (J)	0.0018 (J)	0.0025 (J)
5/1/2018						<0.005	0.0021 (J)	0.0016 (J)
6/26/2018	0.00072 (J)							
6/27/2018		<0.005	<0.005		<0.005			0.0016 (J)
6/28/2018				0.00073 (J)			0.0017 (J)	
7/31/2018							<0.005	
8/1/2018								0.0028 (J)
8/23/2018							0.00075 (J)	<0.005
9/19/2018							<0.005	<0.005
10/29/2018							<0.005	0.0012 (J)
11/28/2018							0.00096 (J)	0.0019 (J)
12/18/2018	0.00091 (J)		<0.005	<0.005				
12/19/2018					<0.005			0.00075 (J)
12/20/2018		<0.005					<0.005	
8/27/2019	<0.005			<0.005	<0.005			
8/28/2019		0.0014 (J)	0.00051 (J)				0.00058 (J)	0.0018 (J)
10/15/2019	0.00052 (J)							
10/16/2019			0.00065 (J)					<0.005
12/3/2019							0.0007 (J)	
12/4/2019		0.0011 (J)		0.00056 (J)	0.00053 (J)			
3/4/2020	<0.005	<0.005	0.00044 (J)					0.00049 (J)
3/5/2020				<0.005	<0.005		<0.005	
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
8/20/2020							<0.005	0.00089 (J)
9/15/2020	<0.005		<0.005					
9/16/2020		<0.005		<0.005	<0.005		<0.005	<0.005
3/2/2021	<0.005						<0.005	<0.005
3/3/2021		<0.005	0.0015 (J)	<0.005				
3/4/2021					<0.005			
9/23/2021							<0.005	0.002 (J)
9/28/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
2/2/2022	<0.005			<0.005	<0.005	0.004 (J)	<0.005	0.0056
2/3/2022			<0.005					
2/4/2022		<0.005						
8/23/2022	<0.005							0.00228 (J)
8/24/2022			<0.005	0.00283 (J)				
8/25/2022		<0.005			<0.005	<0.005	<0.005	
1/24/2023					<0.005			
1/25/2023		<0.005				0.00221 (J)	0.00225 (J)	
1/26/2023	<0.005		<0.005	0.00208 (J)				0.0024 (J)
8/22/2023				<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
8/23/2023						<0.005		
8/24/2023	<0.005	<0.005	<0.005				<0.005	0.0038 (J)
1/30/2024				0.002 (J)	<0.005	<0.005		<0.005
1/31/2024	<0.005	<0.005	<0.005					
2/1/2024							<0.005	
8/27/2024		<0.005	<0.005			<0.005		
8/28/2024				<0.005	<0.005			<0.005
8/29/2024	<0.005						<0.005	
2/18/2025								<0.005
2/19/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Mean	0.004216	0.004277	0.0038	0.004236	0.004797	0.004203	0.003732	0.003113
Std. Dev.	0.001704	0.001573	0.001834	0.001502	0.000953	0.001487	0.001816	0.001744
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.002416
Lower Lim.	0.00091	0.0014	0.0019	0.00283	0.00053	0.00221	0.0018	0.001286

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-52I	PZ-68D
8/10/2018	<0.005	
8/23/2018	<0.005	
9/19/2018	0.0013 (J)	
10/29/2018	0.0038 (J)	
11/28/2018	0.0016 (J)	
12/20/2018	0.0032 (J)	
1/17/2019	0.0032 (J)	
2/13/2019	<0.005	
8/29/2019	0.00067 (J)	
10/16/2019	0.0026 (J)	
3/4/2020	0.0047 (J)	
8/20/2020	0.0031 (J)	
9/17/2020	<0.005	
3/4/2021	0.003 (J)	
9/28/2021	<0.005	
2/2/2022	<0.005	
8/25/2022	<0.005	
1/25/2023	<0.005	
2/1/2023		0.0058
8/23/2023		0.00342 (J)
8/24/2023	<0.005	
2/1/2024	<0.005	<0.005
8/28/2024	<0.005	
8/29/2024		<0.005
2/19/2025	<0.005	<0.005
Mean	0.003962	0.004844
Std. Dev.	0.001409	0.0008681
Upper Lim.	0.005	0.0058
Lower Lim.	0.0031	0.00342

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
9/6/2016				0.0206				
9/8/2016	0.0378	0.0184	0.0199		0.0593			
11/17/2016	0.0448							
11/18/2016		0.0173						
11/21/2016			0.0221 (J)	0.0237 (J)	0.0532			
2/21/2017	0.0447	0.015						
2/22/2017			0.0179	0.0219	0.0498			
6/13/2017	0.0351	0.0143						
6/14/2017			0.0157	0.0197	0.0421			
9/27/2017	0.0383	0.017	0.0165	0.0213	0.0411			
2/14/2018	0.0327	0.0166	0.0163	0.0236	0.0417			
3/6/2018						0.0461	0.1	0.0519
5/1/2018						0.052	0.084	0.049
6/26/2018	0.031							
6/27/2018		0.015	0.017		0.038			0.046
6/28/2018				0.023			0.067	
7/31/2018							0.087	
8/1/2018								0.043
8/23/2018							0.084	0.038
9/19/2018							0.086	0.036
10/29/2018							0.098	0.041
11/28/2018							0.11	0.039
12/18/2018	0.03		0.017	0.029				
12/19/2018					0.036			0.04
12/20/2018		0.015					0.093	
8/27/2019	0.027			0.027	0.032			
8/28/2019		0.019	0.02				0.11	0.035
10/15/2019	0.027							
10/16/2019			0.019					0.032
12/3/2019							0.099	
12/4/2019		0.016		0.021	0.028			
3/4/2020	0.026	0.015	0.018					0.038
3/5/2020				0.025	0.026		0.078	
8/19/2020	0.027	0.016	0.019	0.026	0.025			
8/20/2020							0.083	0.035
9/15/2020	0.024		0.017					
9/16/2020		0.016		0.022	0.024		0.085	0.028
3/2/2021	0.026						0.061	0.036
3/3/2021		0.016	0.021	0.028				
3/4/2021					0.024			
9/23/2021							0.064	0.031
9/28/2021	0.023	0.013	0.017	0.035	0.02	0.049		
2/2/2022	0.023			0.031	0.023	0.052	0.063	0.028
2/3/2022			0.016					
2/4/2022		0.015						
8/23/2022	0.0259							0.0285
8/24/2022			0.0175	0.0389				
8/25/2022		0.0161			0.0231	0.056	0.0574	
1/24/2023					0.0182			
1/25/2023		0.0166				0.0498	0.0695	
1/26/2023	0.0293		0.018	0.0397				0.0311
8/22/2023				0.04	0.0243			

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
8/23/2023						0.0555		
8/24/2023	0.0271	0.0151	0.0174				0.0524	0.028
1/30/2024				0.0349	0.0192	0.052		0.0278
1/31/2024	0.0276	0.0155	0.0179					
2/1/2024							0.0497	
8/27/2024		0.0164	0.0163			0.0524		
8/28/2024				0.0339	0.0163			0.0257
8/29/2024	0.0291						0.0602	
2/18/2025								0.0266
2/19/2025	0.0254	0.0193	0.0168	0.0328	0.0192	0.05	0.0629	
Mean	0.03008	0.01607	0.01788	0.02809	0.03107	0.05148	0.07844	0.03542
Std. Dev.	0.006345	0.001497	0.001669	0.00666	0.01231	0.002951	0.01811	0.007379
Upper Lim.	0.033	0.01688	0.01877	0.03167	0.03767	0.05411	0.08791	0.03928
Lower Lim.	0.02662	0.01527	0.01698	0.02452	0.02446	0.04885	0.06897	0.03156

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-52I	PZ-68D	PZ-74I	PZ-75I
8/10/2018	0.038			
8/23/2018	0.03			
9/19/2018	0.03			
10/29/2018	0.025			
11/28/2018	0.017			
12/20/2018	0.013			
1/17/2019	0.017			
2/13/2019	0.025			
8/29/2019	0.017			
10/16/2019	0.015			
3/4/2020	0.022			
8/20/2020	0.017			
9/17/2020	0.02			
3/4/2021	0.019			
9/28/2021	0.013			
2/2/2022	0.013			
8/25/2022	0.0179			
1/25/2023	0.0249			
2/1/2023		0.145		
6/6/2023			0.0586	
8/23/2023		0.107		
8/24/2023	0.0415		0.0346	0.0513
2/1/2024	0.0414	0.0853	0.0245	0.0421
8/27/2024			0.026	0.035
8/28/2024	0.0345			
8/29/2024		0.0796		
2/18/2025			0.0222	0.0299
2/19/2025	0.039	0.0959		
Mean	0.0241	0.1026	0.03318	0.03958
Std. Dev.	0.009604	0.02593	0.01496	0.009281
Upper Lim.	0.02926	0.146	0.0588	0.06065
Lower Lim.	0.01894	0.0591	0.01333	0.0185

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47
9/8/2016	0.0002 (J)	0.0011 (J)		
11/18/2016	0.0002 (J)			
11/21/2016		0.0012 (J)		
2/21/2017	0.0002 (J)			
2/22/2017		0.0014 (J)		
6/13/2017	0.0002 (J)			
6/14/2017		0.0012 (J)		
9/27/2017	0.0001 (J)	0.001 (J)		
2/14/2018	<0.0005	<0.003		
3/6/2018			<0.0005	<0.0005
5/1/2018			<0.0005	<0.0005
6/27/2018	0.00014 (J)	0.0008 (J)		<0.0005
6/28/2018			<0.0005	
7/31/2018			<0.0005	
8/1/2018				<0.0005
8/23/2018			7.9E-05 (J)	5.5E-05 (J)
9/19/2018			<0.0005	<0.0005
10/29/2018			<0.0005	<0.0005
11/28/2018			<0.0005	5.6E-05 (J)
12/18/2018		0.00071 (J)		
12/19/2018				6E-05 (J)
12/20/2018	0.00012 (J)		<0.0005	
8/28/2019	0.00012 (J)	0.0008 (J)	<0.0005	<0.0005
10/16/2019		0.00072 (J)		<0.0005
10/17/2019	<0.0005		<0.0005	
12/3/2019			<0.0005	
12/4/2019	0.00012 (J)			
3/4/2020	0.00012 (J)	0.00073 (J)		<0.0005
3/5/2020			<0.0005	
8/19/2020	9.9E-05 (J)	0.00074 (J)		
8/20/2020			4.6E-05 (J)	4.7E-05 (J)
9/15/2020		0.00071 (J)		
9/16/2020	0.00011 (J)		<0.0005	<0.0005
3/2/2021			<0.0005	<0.0005
3/3/2021	7.1E-05 (J)	0.00094		
9/23/2021			<0.0005	<0.0005
9/28/2021	<0.0005	0.00079		
2/2/2022			<0.0005	<0.0005
2/3/2022		0.00083		
2/4/2022	5.4E-05 (J)			
8/23/2022				<0.0005
8/24/2022		0.000845		
8/25/2022	<0.0005		<0.0005	
1/25/2023	<0.0005		<0.0005	
1/26/2023		0.00109		<0.0005
8/24/2023	<0.0005	0.00113	<0.0005	<0.0005
1/30/2024				<0.0005
1/31/2024	<0.0005	0.00114		
2/1/2024			<0.0005	
8/27/2024	<0.0005	0.000892		
8/28/2024				<0.0005
8/29/2024			<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47
2/18/2025				<0.0005
2/19/2025	0.000201 (J)	0.001	<0.0005	
Mean	0.0002633	0.0009667	0.0004635	0.0004225
Std. Dev.	0.0001813	0.0002288	0.0001236	0.0001727
Upper Lim.	0.0005	0.00109	0.0005	0.0005
Lower Lim.	0.00011	0.0008439	7.9E-05	6E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016		<0.001			
9/8/2016	7E-05 (J)		<0.001		
11/18/2016	9E-05 (J)				
11/21/2016		8E-05 (J)	8E-05 (J)		
2/21/2017	<0.001				
2/22/2017		<0.001	0.0001 (J)		
6/13/2017	<0.001				
6/14/2017		<0.001	<0.001		
9/27/2017	<0.001	<0.001	<0.001		
2/14/2018	<0.001	<0.001	<0.001		
3/6/2018				<0.001	<0.001
5/1/2018				<0.001	<0.001
6/27/2018	<0.001		0.00011 (J)		0.00014 (J)
6/28/2018		<0.001		<0.001	
7/31/2018				<0.001	
8/1/2018					0.00011 (J)
8/23/2018				<0.001	0.00018 (J)
9/19/2018				<0.001	0.00015 (J)
10/29/2018				9.8E-05 (J)	0.00019 (J)
11/28/2018				<0.001	0.00022 (J)
12/18/2018		<0.001			
12/19/2018			0.00012 (J)		<0.001
12/20/2018	<0.001			0.00029 (J)	
8/27/2019		<0.001	<0.001		
8/28/2019	<0.001			<0.001	0.00017 (J)
10/16/2019					0.00018 (J)
10/17/2019	<0.001	<0.001	<0.001	<0.001	
12/3/2019				0.00011 (J)	
12/4/2019	<0.001	<0.001	<0.001		
3/4/2020	<0.001				0.00024 (J)
3/5/2020		<0.001	<0.001	<0.001	
8/19/2020	<0.001	<0.001	<0.001		
8/20/2020				0.00014 (J)	<0.001
9/16/2020	<0.001	<0.001	<0.001	<0.001	<0.001
3/2/2021				0.0002 (J)	<0.001
3/3/2021	<0.001	<0.001			
3/4/2021			<0.001		
9/23/2021				<0.001	<0.001
9/28/2021	<0.001	<0.001	<0.001		
2/2/2022		0.00014 (J)	<0.001	<0.001	0.00015 (J)
2/4/2022	<0.001				
8/23/2022					<0.001
8/24/2022		<0.001			
8/25/2022	<0.001		<0.001	<0.001	
1/24/2023			<0.001		
1/25/2023	<0.001			<0.001	
1/26/2023		<0.001			<0.001
8/22/2023		<0.001	<0.001		
8/24/2023	<0.001			<0.001	<0.001
1/30/2024		<0.001	<0.001		<0.001
1/31/2024	<0.001				
2/1/2024				<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
8/27/2024	<0.001				
8/28/2024		<0.001	<0.001		<0.001
8/29/2024				<0.001	
2/18/2025					<0.001
2/19/2025	<0.001	<0.001	<0.001	<0.001	
Mean	0.00092	0.0009226	0.0008439	0.0008266	0.0006404
Std. Dev.	0.0002651	0.0002566	0.0003479	0.0003469	0.0004199
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	9E-05	0.00014	0.00012	0.00029	0.00018

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I
9/6/2016				<0.01				
9/8/2016	<0.01	0.001 (J)	<0.01		<0.01			
11/17/2016	<0.01							
11/18/2016		<0.01						
11/21/2016			<0.01	<0.01	<0.01			
2/21/2017	<0.01	<0.01						
2/22/2017			<0.01	<0.01	0.0012 (J)			
6/13/2017	<0.01	<0.01						
6/14/2017			<0.01	<0.01	0.0009 (J)			
9/27/2017	<0.01	<0.01	<0.01	<0.01	0.0011 (J)			
2/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01			
3/6/2018						<0.01	<0.01	
5/1/2018						<0.01	<0.01	
6/26/2018	<0.01							
6/27/2018		<0.01	<0.01		<0.01		<0.01	
6/28/2018				<0.01		<0.01		
7/31/2018						<0.01		
8/1/2018							<0.01	
8/10/2018								0.0017 (J)
8/23/2018						<0.01	<0.01	<0.01
9/19/2018						<0.01	<0.01	<0.01
10/29/2018						<0.01	<0.01	<0.01
11/28/2018						<0.01	<0.01	<0.01
12/18/2018	<0.01		<0.01	<0.01				
12/19/2018					<0.01		0.0018 (J)	
12/20/2018		0.003 (J)				<0.01		<0.01
1/17/2019								<0.01
2/13/2019								<0.01
8/27/2019	0.0016 (J)			0.0051 (J)	0.0019 (J)			
8/28/2019		<0.01	<0.01			<0.01	0.00092 (J)	
8/29/2019								<0.01
10/15/2019	0.00098 (J)							
10/16/2019			<0.01				<0.01	<0.01
12/3/2019						<0.01		
12/4/2019		<0.01		<0.01	0.0014 (J)			
3/4/2020	<0.01	<0.01	0.02				0.00078 (J)	<0.01
3/5/2020				<0.01	0.0014 (J)	0.00053 (J)		
8/19/2020	<0.01	<0.01	<0.01	<0.01	0.0021 (J)			
8/20/2020						0.001 (J)	0.00064 (J)	<0.01
9/15/2020	<0.01		<0.01					
9/16/2020		<0.01		0.014	0.0025 (J)	0.0014 (J)	<0.01	
9/17/2020								<0.01
3/2/2021	<0.01					<0.01	<0.01	
3/3/2021		<0.01	<0.01	<0.01				
3/4/2021					0.002 (J)			<0.01
9/23/2021						<0.01	<0.01	
9/28/2021	<0.01	<0.01	<0.01	<0.01	0.0021 (J)			<0.01
2/2/2022	<0.01			<0.01	0.0021 (J)	<0.01	<0.01	<0.01
2/3/2022			<0.01					
2/4/2022		<0.01						
8/23/2022	<0.01						<0.01	
8/24/2022			<0.01	<0.01				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-52I
8/25/2022		<0.01			<0.01	<0.01		<0.01
1/24/2023					<0.01			
1/25/2023		<0.01				<0.01		<0.01
1/26/2023	<0.01		<0.01	<0.01			<0.01	
8/22/2023				<0.01	<0.01			
8/24/2023	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01
1/30/2024				<0.01	<0.01		<0.01	
1/31/2024	<0.01	<0.01	<0.01					
2/1/2024						<0.01		<0.01
8/27/2024		<0.01	<0.01					
8/28/2024				<0.01	<0.01		<0.01	<0.01
8/29/2024	<0.01					<0.01		
2/18/2025							<0.01	
2/19/2025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01
Mean	0.009208	0.009273	0.01045	0.009959	0.00585	0.008823	0.008441	0.009623
Std. Dev.	0.002565	0.002374	0.002132	0.00138	0.004263	0.00311	0.00348	0.00177
Upper Lim.	0.01	0.01	0.02	0.014	0.01	0.01	0.01	0.01
Lower Lim.	0.0016	0.003	0.01	0.0051	0.0019	0.0014	0.0018	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
9/6/2016				0.0006 (J)				
9/8/2016	0.0073 (J)	0.0149	0.0122		0.0025 (J)			
11/17/2016	0.0086 (J)							
11/18/2016		0.0131						
11/21/2016			0.0122	<0.04	0.001 (J)			
2/21/2017	0.0079 (J)	0.0099 (J)						
2/22/2017			0.0136	0.0016 (J)	<0.001			
6/13/2017	0.0083 (J)	0.0094 (J)						
6/14/2017			0.0113	0.0015 (J)	<0.001			
9/27/2017	0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)	<0.001			
2/14/2018	<0.01	0.0112	<0.01	<0.04	<0.001			
3/6/2018						<0.001	0.0162	<0.001
5/1/2018						<0.001	0.015	<0.001
6/26/2018	0.006 (J)							
6/27/2018		0.0093 (J)	0.0069 (J)		<0.001			0.0076 (J)
6/28/2018				0.00078 (J)			0.01	
7/31/2018							0.0098 (J)	
8/1/2018								0.004 (J)
8/23/2018							0.0093 (J)	0.0016 (J)
9/19/2018							0.0084 (J)	0.0018 (J)
10/29/2018							0.0064 (J)	0.0014 (J)
11/28/2018							0.0071 (J)	0.0016 (J)
12/18/2018	0.0055 (J)		0.0067 (J)	0.0011 (J)				
12/19/2018					<0.001			0.0014 (J)
12/20/2018		0.0081 (J)					0.069	
8/27/2019	0.0042 (J)			0.0014 (J)	<0.001			
8/28/2019		0.01	0.0061 (J)				0.011	0.00037 (J)
10/15/2019	0.0043 (J)							
10/16/2019			0.0058					0.00032 (J)
10/17/2019		0.009 (J)		<0.04	<0.001		0.0096 (J)	
12/3/2019							0.0076	
12/4/2019		0.0086		0.0012 (J)	<0.001			
3/4/2020	0.0039 (J)	0.008	0.007					0.0011 (J)
3/5/2020				0.0011 (J)	<0.001		0.0091	
8/19/2020	0.0039 (J)	0.0078	0.0065	0.0008 (J)	<0.001			
8/20/2020							0.022	0.00043 (J)
9/15/2020	0.0035 (J)		0.0064					
9/16/2020		0.008		0.0008 (J)	<0.001		0.0049 (J)	0.00053 (J)
3/2/2021	0.003 (J)						0.0057	0.0005 (J)
3/3/2021		0.0062	0.0095	0.0015 (J)				
3/4/2021					<0.001			
9/23/2021							0.0049 (J)	<0.001
9/28/2021	0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)	<0.001	<0.001		
2/2/2022	0.0027 (J)			0.0012 (J)	<0.001	<0.001	0.0054	<0.001
2/3/2022			0.0077					
2/4/2022		0.0076						
8/23/2022	0.00342							<0.001
8/24/2022			0.0066	0.00163				
8/25/2022		0.0079			<0.001	<0.001	0.00357	
1/24/2023					<0.001			
1/25/2023		0.00711				<0.001	0.00258	
1/26/2023	0.0032		0.00823	0.00158				0.000376 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
8/22/2023				0.00183	<0.001			
8/23/2023						<0.001		
8/24/2023	0.00343	0.00601	0.00724				0.00221	<0.001
1/30/2024				0.00179	<0.001	0.000408 (J)		<0.001
1/31/2024	0.00254	0.00392	0.00874					
2/1/2024							0.00181	
8/27/2024		0.00566	0.00574			<0.001		
8/28/2024				0.00149	<0.001			<0.001
8/29/2024	0.00319						0.00203	
2/18/2025								<0.001
2/19/2025	0.00193	0.00157	0.00698	0.00149	<0.001	<0.001	0.000823 (J)	
Mean	0.0047	0.008151	0.008033	0.0037	0.001065	0.0009408	0.01018	0.001392
Std. Dev.	0.002149	0.002867	0.002375	0.006465	0.0003128	0.0001872	0.01349	0.001548
Upper Lim.	0.005631	0.00965	0.009129	0.00163	0.0025	0.001	0.01196	0.001007
Lower Lim.	0.003468	0.006652	0.006725	0.001	0.001	0.001	0.004379	0.0004204

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-52I	PZ-63I	PZ-68D	PZ-74I	PZ-75I
8/10/2018	0.0043 (J)				
8/23/2018	0.0026 (J)				
9/19/2018	0.0028 (J)				
10/29/2018	0.0015 (J)				
11/28/2018	0.0012 (J)				
12/20/2018	<0.001				
1/17/2019	<0.001				
2/13/2019	<0.001				
8/29/2019	0.00063 (J)				
10/16/2019	<0.001				
3/4/2020	<0.001				
8/20/2020	<0.001				
9/17/2020	0.00046 (J)				
3/4/2021	<0.001				
9/28/2021	<0.001				
2/2/2022	<0.001				
2/4/2022		0.019			
8/25/2022	<0.001	0.0232			
1/25/2023	<0.001				
1/30/2023		0.028			
2/1/2023			0.000825 (J)		
6/6/2023				0.00258	
8/23/2023		0.0309	0.00106		
8/24/2023	0.000317 (J)			0.00059 (J)	0.00105
2/1/2024	0.00042 (J)	0.0299	0.000852 (J)	0.000829 (J)	0.000519 (J)
8/27/2024				<0.001	<0.001
8/28/2024	<0.001				
8/29/2024		0.0335	0.000526 (J)		
2/18/2025				<0.001	<0.001
2/19/2025	<0.001	0.0402	0.000454 (J)		
Mean	0.001238	0.02924	0.0007434	0.0012	0.0008923
Std. Dev.	0.0008989	0.006884	0.0002499	0.0007896	0.0002499
Upper Lim.	0.0012	0.03742	0.001162	0.002303	0.001094
Lower Lim.	0.00063	0.02107	0.0003247	0.0002187	0

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
9/6/2016				1.01 (U)				
9/8/2016	0.471	1.74	0.54		0.816			
11/17/2016	1.2 (U)							
11/18/2016		0.571 (U)						
11/21/2016			1.59	0.201 (U)	0.0569 (U)			
2/21/2017	1.31	1.28						
2/22/2017			1.64	0.57 (U)	1.07 (U)			
6/13/2017	0.738 (U)	0.521 (U)						
6/14/2017			1.32	0.726 (U)	0.459 (U)			
9/27/2017	0.583 (U)	0.595 (U)	1.7	0.884 (U)	0.807 (U)			
2/14/2018	1.41	1.18 (U)	1.89	1.14 (U)	1.67			
3/6/2018						0.577 (U)	1.25 (U)	1.75
5/1/2018						0.27 (U)	0.423 (U)	2.09
6/26/2018	0.968 (U)							
6/27/2018		1.3 (U)	1.66		1.34			0.878 (U)
6/28/2018				1.4			0.283 (U)	
7/31/2018							0.243 (U)	
8/1/2018								0.638 (U)
8/23/2018							1.1 (U)	1.14 (U)
9/19/2018							0.369 (U)	1.45
10/29/2018							0.401 (U)	1.09 (U)
11/28/2018							0.901 (U)	1.67
12/18/2018	1.13 (U)		0.759 (U)	0.661 (U)				
12/19/2018					1.21 (U)			1.3
12/20/2018		0.527 (U)					0.657 (U)	
8/27/2019	0.91 (U)			1.35	0.86 (U)			
8/28/2019		0.643 (U)	1.76				0.528 (U)	0.804 (U)
10/15/2019	1.06 (U)							
10/16/2019			1.69 (U)					1.28 (U)
10/17/2019		1.07 (U)		1.25 (U)	1.2 (U)		0.977 (U)	
3/4/2020	1.34	1.18	1.23					0.862 (U)
3/5/2020				1.35	0.483 (U)		0.921 (U)	
8/19/2020	0.467 (U)	0.684 (U)	0.876 (U)	1 (U)	0.482 (U)			
8/20/2020							0.501 (U)	1.64
9/15/2020	0.205 (U)		1.23 (U)					
9/16/2020		0.175 (U)		0.43 (U)	0.195 (U)		0.254 (U)	0.51 (U)
3/2/2021	0.161 (U)						0.107 (U)	0.571 (U)
3/3/2021		0.829 (U)	1.31 (U)	0.415 (U)				
3/4/2021					0.32 (U)			
9/23/2021							0.619 (U)	0.527 (U)
9/28/2021	4.44	3.58	1.49	0.749 (U)	0.947 (U)	0.526 (U)		
2/2/2022	0.64 (U)			1.21 (U)	0.0265 (U)	0.244 (U)	0.219 (U)	0.145 (U)
2/3/2022			0.798 (U)					
2/4/2022		0.335 (U)						
8/23/2022	1.9 (U)							3.74
8/24/2022			1.97	3.26				
8/25/2022		1.79 (U)			1.32 (U)	1.6 (U)	1.65 (U)	
1/24/2023					2.25			
1/25/2023		1.53 (U)				2.49 (U)	1.29 (U)	
1/26/2023	3.24		2.27 (U)	2.73 (U)				3.28
8/22/2023				2.71	2.33			
8/23/2023						0.477 (U)		

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
8/24/2023	1.21 (U)	2.23	3.02				0.607 (U)	2.39
1/30/2024				4.11	0.572 (U)	2.87		2.63
1/31/2024	3.78	1.49 (U)	3.01					
2/1/2024							1.22 (U)	
8/27/2024		2.41	2.39			2.84		
8/28/2024				3.82	0.737 (U)			1.32 (U)
8/29/2024	6.24						1.71	
2/18/2025								2.18 (U)
2/19/2025	2.94	1.44 (U)	2.67	1.09 (U)	2.61	0.947 (U)	2.94	
Mean	1.652	1.232	1.673	1.458	0.9892	1.284	0.8335	1.473
Std. Dev.	1.543	0.7952	0.6839	1.12	0.7171	1.077	0.6503	0.9103
Upper Lim.	2.136	1.659	2.04	1.857	1.374	2.146	1.054	1.949
Lower Lim.	0.7817	0.805	1.306	0.8121	0.6042	0.3744	0.4636	0.9972

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-52I	PZ-68D	PZ-74I	PZ-75I
8/10/2018	1.91			
8/23/2018	1.86			
9/19/2018	1.64			
10/29/2018	1.36 (U)			
11/28/2018	1.07 (U)			
12/20/2018	0.892 (U)			
1/17/2019	0.411			
2/13/2019	1.68			
8/29/2019	1.44			
10/16/2019	2.13			
3/4/2020	2.3			
8/20/2020	2.97			
9/17/2020	2.04			
3/4/2021	2.04			
9/28/2021	3.28			
2/2/2022	2.33			
8/25/2022	4.97			
1/25/2023	7.94			
2/1/2023		4.16		
6/6/2023			7.8	
8/23/2023		1.62		
8/24/2023	6.36		0.811 (U)	3.11
2/1/2024	4.51	2.16	0.912 (U)	2.19
8/27/2024			0.997 (U)	2.81
8/28/2024	14.7			
8/29/2024		5.43		
2/18/2025			0.399 (U)	2.59
2/19/2025	4.91	1.79 (U)		
Mean	3.307	3.032	2.184	2.675
Std. Dev.	3.162	1.682	3.148	0.3873
Upper Lim.	4.254	5.851	7.656	3.554
Lower Lim.	1.68	0.2131	0.1821	1.796

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
9/6/2016				0.43				
9/8/2016	0.14 (J)	0.31	0.2 (J)		0.15 (J)			
11/17/2016	0.27 (J)							
11/18/2016		0.19 (J)						
11/21/2016			0.37	0.24 (J)	0.04 (J)			
2/21/2017	0.6	0.35						
2/22/2017			0.37	0.2 (J)	0.08 (J)			
6/13/2017	0.19 (J)	0.19 (J)						
6/14/2017			0.38	0.15 (J)	0.09 (J)			
9/27/2017	0.5	0.4	0.4	0.41	<0.1			
2/14/2018	<0.3	<0.3	<0.3	<0.3	<0.1			
3/6/2018						<0.3	0.94	1.1
5/1/2018						<0.3	<0.1	0.89
6/26/2018	0.15 (J)							
6/27/2018		0.26 (J)	0.085 (J)		<0.1			0.27 (J)
6/28/2018				0.93			0.69	
7/31/2018							<0.1	
8/1/2018								0.48
8/23/2018							<0.1	0.34
9/19/2018							<0.1	0.23 (J)
10/29/2018							<0.1	<0.2
11/28/2018							<0.1	0.063 (J)
12/18/2018	0.29 (J)		0.26 (J)	0.54				
12/19/2018					0.23 (J)			0.28 (J)
12/20/2018		0.26 (J)					0.12 (J)	
3/19/2019		0.2 (J)						<0.2
3/20/2019	0.18 (J)		0.091 (J)	0.31	<0.1		0.066 (J)	
8/27/2019	0.15 (J)			0.12 (J)	<0.1			
8/28/2019		0.074 (J)	0.055 (J)				<0.1	<0.2
10/15/2019	0.16 (J)							
10/16/2019			0.11 (J)					0.076 (J)
12/3/2019							0.19 (J)	
12/4/2019		0.18 (J)		0.26 (J)	0.11 (J)			
3/4/2020	0.07 (J)	<0.3	<0.3					<0.2
3/5/2020				0.051 (J)	<0.1		<0.1	
8/19/2020	0.17	0.19	0.12	0.14	<0.1			
8/20/2020							<0.1	<0.2
9/15/2020	0.15		0.057 (J)					
9/16/2020		0.15		0.13	<0.1		0.052 (J)	<0.2
3/2/2021	0.15						0.067 (J)	<0.2
3/3/2021		0.24	0.13	0.13				
3/4/2021					<0.1			
9/23/2021							0.06 (J)	<0.2
9/28/2021	0.15	0.16	0.081 (J)	0.11	<0.1	0.08 (J)		
2/2/2022	0.15			0.1	<0.1	0.065 (J)	<0.1	<0.2
2/3/2022			0.11					
2/4/2022		0.14						
8/23/2022	0.186							<0.2
8/24/2022			0.103	0.318				
8/25/2022		0.234			0.138	0.184	0.166	
1/24/2023					0.082 (J)			
1/25/2023		0.152				0.13	0.163	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
1/26/2023	0.202		0.0935 (J)	0.167				0.117
8/22/2023				0.116	0.0477 (J)			
8/23/2023						0.195		
8/24/2023	0.25	0.302	0.0849 (J)				0.185	0.243
1/30/2024				0.169	0.207	0.242		0.11
1/31/2024	0.221	0.222	0.0968 (J)					
2/1/2024							0.126	
5/8/2024		0.342			0.0853 (J)			
8/27/2024		0.382	0.0849 (J)			0.193		
8/28/2024				0.336 (J)	0.0511 (J)			<0.2
8/29/2024	0.248						0.078 (J)	
2/18/2025								0.189
2/19/2025	0.281	0.0997 (J)	0.129	0.194	0.0774 (J)	0.127	0.142	
Mean	0.2177	0.222	0.1614	0.2479	0.1037	0.1816	0.1685	0.2745
Std. Dev.	0.1185	0.08816	0.1119	0.1927	0.04291	0.08271	0.2058	0.239
Upper Lim.	0.2476	0.267	0.1828	0.3105	0.11	0.2034	0.163	0.27
Lower Lim.	0.1552	0.177	0.09762	0.148	0.082	0.1006	0.078	0.189

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-52I	PZ-68D	PZ-74I	PZ-75I
8/10/2018	1.6 (O)			
8/23/2018	0.32			
9/19/2018	0.22 (J)			
10/29/2018	0.14 (J)			
11/28/2018	0.24 (J)			
12/20/2018	0.3			
1/17/2019	0.23 (J)			
2/13/2019	<0.3			
3/20/2019	0.14 (J)			
8/29/2019	0.087 (J)			
10/16/2019	0.22 (J)			
3/4/2020	0.1 (J)			
8/20/2020	0.23			
9/17/2020	0.074 (J)			
3/4/2021	0.28			
9/28/2021	0.12			
2/2/2022	0.098 (J)			
8/25/2022	0.157			
1/25/2023	0.169			
2/1/2023		0.166		
6/6/2023			0.0891 (J)	
7/5/2023				0.157
8/23/2023		0.218		
8/24/2023	0.188 (J)		0.157	0.14
2/1/2024	0.215	0.211	0.232	0.0996 (J)
8/27/2024			0.159	0.155
8/28/2024	0.0748 (J)			
8/29/2024		0.126		
2/18/2025			0.0877 (J)	0.0816 (J)
2/19/2025	0.152	0.135		
Mean	0.1775	0.1712	0.145	0.1266
Std. Dev.	0.07243	0.04229	0.05983	0.03415
Upper Lim.	0.2164	0.2421	0.2452	0.1839
Lower Lim.	0.1386	0.1003	0.04471	0.06942

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
9/6/2016				<0.002				
9/8/2016	<0.002	<0.002	0.0004 (J)					
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016			0.0006 (J)	<0.002				
2/21/2017	<0.002	<0.002						
2/22/2017			0.0005 (J)	<0.002				
6/13/2017	<0.002	<0.002						
6/14/2017			0.0004 (J)	<0.002				
9/27/2017	<0.002	<0.002	0.0006 (J)	<0.002				
2/14/2018	<0.002	<0.002	<0.005 (O)	<0.002				
3/6/2018					<0.002	<0.002		
5/1/2018					<0.002	<0.002		
6/26/2018	<0.002							
6/27/2018		<0.002	0.00032 (J)			<0.002		
6/28/2018				<0.002	<0.002			
7/31/2018					<0.002			
8/1/2018						<0.002		
8/10/2018							<0.002	
8/23/2018					<0.002	<0.002	<0.002	
9/19/2018					<0.002	<0.002	<0.002	
10/29/2018					<0.002	<0.002	<0.002	
11/28/2018					<0.002	<0.002	<0.002	
12/18/2018	<0.002		0.00038 (J)	<0.002				
12/19/2018						<0.002		
12/20/2018		<0.002			<0.002		<0.002	
1/17/2019							<0.002	
2/13/2019							<0.002	
8/27/2019	0.00011 (J)			<0.002				
8/28/2019		<0.002	0.00027 (J)		<0.002	<0.002		
8/29/2019							<0.002	
10/15/2019	<0.002							
10/16/2019			0.00027 (J)			<0.002	<0.002	
12/3/2019					<0.002			
12/4/2019		6.3E-05 (J)		<0.002				
3/4/2020	<0.002	<0.002	0.0003 (J)			0.00012 (J)	<0.002	
3/5/2020				<0.002	0.00026 (J)			
8/19/2020	<0.002	<0.002	0.00025 (J)	<0.002				
8/20/2020					0.00021 (J)	4.8E-05 (J)	<0.002	
9/15/2020	<0.002		0.00029 (J)					
9/16/2020		<0.002		0.00011 (J)	5.3E-05 (J)	6.6E-05 (J)		
9/17/2020							<0.002	
3/2/2021	<0.002				<0.002	<0.002		
3/3/2021		<0.002	0.00033 (J)	<0.002				
3/4/2021							4.2E-05 (J)	
9/23/2021					<0.002	<0.002		
9/28/2021	<0.002	<0.002	<0.002	<0.002			<0.002	
2/2/2022	<0.002			<0.002	<0.002	<0.002	<0.002	
2/3/2022			<0.002					
2/4/2022		<0.002						
8/23/2022	<0.002					<0.002		
8/24/2022			<0.002	<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D
8/25/2022		<0.002			<0.002		<0.002	
1/25/2023		<0.002			0.000595 (J)		<0.002	
1/26/2023	<0.002		<0.002	<0.002		<0.002		
2/1/2023								<0.002
8/22/2023				<0.002				
8/23/2023								<0.002
8/24/2023	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	
1/30/2024				<0.002		<0.002		
1/31/2024	<0.002	<0.002	<0.002					
2/1/2024					<0.002		<0.002	0.000504 (J)
8/27/2024		<0.002	<0.002					
8/28/2024				<0.002		<0.002	<0.002	
8/29/2024	<0.002				<0.002			<0.002
2/18/2025						<0.002		
2/19/2025	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
Mean	0.001914	0.001912	0.0009957	0.001914	0.001701	0.001749	0.001911	0.001701
Std. Dev.	0.0004029	0.000413	0.0008126	0.0004029	0.0006721	0.0006619	0.0004174	0.000669
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.00011	6.3E-05	0.0003	0.00011	0.000595	0.00012	4.2E-05	0.000504

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
9/6/2016			0.0117 (J)					
9/8/2016	0.0021 (J)	0.004 (J)		<0.05				
11/18/2016	<0.01							
11/21/2016		0.0039 (J)	0.0108 (J)	<0.05				
2/21/2017	<0.01							
2/22/2017		0.0043 (J)	0.0103 (J)	0.0023 (J)				
6/13/2017	0.0017 (J)							
6/14/2017		0.0036 (J)	0.0101 (J)	0.0022 (J)				
9/27/2017	0.0016 (J)	0.0038 (J)	0.0116 (J)	0.0021 (J)				
2/14/2018	0.0018 (J)	0.0034 (J)	0.0115 (J)	0.0023 (J)				
3/6/2018					0.0046 (J)	0.0031 (J)	0.0399 (J)	
5/1/2018					0.0049 (J)	0.0038 (J)	0.044 (J)	
6/27/2018	0.0016 (J)	0.0034 (J)		0.0023 (J)			0.044 (J)	
6/28/2018			0.013 (J)			0.0028 (J)		
7/31/2018						<0.25 (O)		
8/1/2018							0.039 (J)	
8/10/2018								0.0087 (J)
8/23/2018						0.0033 (J)	0.044 (J)	0.0089 (J)
9/19/2018						0.0033 (J)	0.043 (J)	0.005 (J)
10/29/2018						0.003 (J)	0.039 (J)	0.0048 (J)
11/28/2018						0.0035 (J)	0.044 (J)	0.0052 (J)
12/18/2018		0.0032 (J)	0.014 (J)					
12/19/2018				0.0018 (J)			0.043 (J)	
12/20/2018	0.0015 (J)					0.003 (J)		0.0042 (J)
1/17/2019								0.0039 (J)
2/13/2019								<0.05
8/27/2019			0.016 (J)	0.0022 (J)				
8/28/2019	0.0016 (J)	0.0033 (J)				0.0034 (J)	0.044 (J)	
8/29/2019								0.0052 (J)
10/16/2019		0.0029 (J)					0.038	0.0023 (J)
12/3/2019						0.0033 (J)		
12/4/2019	0.0014 (J)		0.013	0.0022 (J)				
3/4/2020	0.0014 (J)	0.0029 (J)					0.042	0.002 (J)
3/5/2020			0.016 (J)	0.0022 (J)		0.003 (J)		
8/19/2020	0.0014 (J)	0.0029 (J)	0.018 (J)	0.002 (J)				
8/20/2020						0.0034 (J)	0.044	0.0022 (J)
9/15/2020		0.003 (J)						
9/16/2020	0.0014 (J)		0.016 (J)	0.0022 (J)		0.0036 (J)	0.039	
9/17/2020								0.0058 (J)
3/2/2021						0.0043 (J)	0.044	
3/3/2021	0.0012 (J)	0.0032 (J)	0.014 (J)					
3/4/2021				0.002 (J)				0.003 (J)
9/23/2021						0.0023 (J)	0.042	
9/28/2021	0.0011 (J)	0.0029 (J)	0.023 (J)	0.0021 (J)	0.0048 (J)			0.0035 (J)
2/2/2022			0.021 (J)	0.0035 (J)	0.0058 (J)	0.0022 (J)	0.04	0.0041 (J)
2/3/2022		0.0026 (J)						
2/4/2022	0.001 (J)							
8/23/2022							0.0474	
8/24/2022		0.00304 (J)	0.0238					
8/25/2022	<0.01			0.0043 (J)	0.00652 (J)	<0.01		0.0162
1/24/2023				0.007 (J)				
1/25/2023	<0.01				0.00728 (J)	0.00333 (J)		0.0186

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47	BRGWC-52I
1/26/2023		0.00331 (J)	0.0279				0.0506	
8/22/2023			0.0253	0.00392 (J)				
8/23/2023					0.0056 (J)			
8/24/2023	<0.01	0.00349 (J)				<0.01	0.0532	0.0131
1/30/2024			0.0305	0.00591 (J)	0.00537 (J)		0.0484	
1/31/2024	<0.01	0.00337 (J)						
2/1/2024						<0.01		0.0122
8/27/2024	<0.01	0.00305 (J)			0.00629 (J)			
8/28/2024			0.0295	0.00514 (J)			0.0436	0.00997 (J)
8/29/2024						<0.01		
2/18/2025							0.0456	
2/19/2025	<0.01	<0.01	0.0301	0.00514 (J)	0.00581 (J)	<0.01		0.0114
Mean	0.004582	0.003389	0.01805	0.005128	0.005697	0.004756	0.04355	0.007967
Std. Dev.	0.004198	0.0005493	0.007052	0.006599	0.0008378	0.002944	0.00376	0.006026
Upper Lim.	0.01	0.003684	0.02124	0.00514	0.006445	0.0043	0.04552	0.01013
Lower Lim.	0.0014	0.003094	0.01399	0.0021	0.004949	0.003	0.04159	0.004516

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	PZ-68D	PZ-74I	PZ-75I
2/1/2023	0.00899 (J)		
6/6/2023		0.00704 (J)	
8/23/2023	0.00399 (J)		
8/24/2023		0.00711 (J)	0.00579 (J)
2/1/2024	0.00564 (J)	0.00702 (J)	0.00411 (J)
8/27/2024		0.00825 (J)	0.00433 (J)
8/29/2024	0.00633 (J)		
2/18/2025		0.00692 (J)	0.00355 (J)
2/19/2025	<0.01		
Mean	0.00699	0.007268	0.004445
Std. Dev.	0.002466	0.0005531	0.0009549
Upper Lim.	0.009258	0.00825	0.006613
Lower Lim.	0.003217	0.00692	0.002277

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	PZ-74I
9/6/2016				<0.0002		
9/8/2016	<0.0002	<0.0002	<0.0002		<0.0002	
11/17/2016	<0.0002					
11/18/2016		<0.0002				
11/21/2016			<0.0002	<0.0002	<0.0002	
2/21/2017	<0.0002	<0.0002				
2/22/2017			<0.0002	<0.0002	<0.0002	
6/13/2017	<0.0002	5E-05 (J)				
6/14/2017			7E-05 (J)	7E-05 (J)	9E-05 (J)	
9/27/2017	4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)	0.0001 (J)	
2/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
6/26/2018	<0.0002					
6/27/2018		<0.0002	<0.0002		<0.0002	
6/28/2018				<0.0002		
12/18/2018	<0.0002		<0.0002	<0.0002		
12/19/2018					<0.0002	
12/20/2018		<0.0002				
8/27/2019	<0.0002			<0.0002	<0.0002	
8/28/2019		<0.0002	<0.0002			
8/19/2020	8.3E-05 (J)	<0.0002	9.8E-05 (J)	8.2E-05 (J)	8.2E-05 (J)	
9/15/2020	<0.0002		<0.0002			
9/16/2020		<0.0002		<0.0002	<0.0002	
3/2/2021	<0.0002					
3/3/2021		<0.0002	<0.0002	<0.0002		
3/4/2021					<0.0002	
9/28/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/2/2022	<0.0002			<0.0002	<0.0002	
2/3/2022			<0.0002			
2/4/2022		<0.0002				
8/23/2022	<0.0002					
8/24/2022			<0.0002	<0.0002		
8/25/2022		<0.0002			<0.0002	
1/24/2023					<0.0002	
1/25/2023		<0.0002				
1/26/2023	<0.0002		<0.0002	<0.0002		
6/6/2023						<0.0002
8/22/2023				<0.0002	<0.0002	
8/24/2023	<0.0002	<0.0002	<0.0002			<0.0002
1/30/2024				<0.0002	<0.0002	
1/31/2024	<0.0002	<0.0002	0.00078			
2/1/2024						<0.0002
8/27/2024		<0.0002	<0.0002			<0.0002
8/28/2024				<0.0002	<0.0002	
8/29/2024	<0.0002					
2/18/2025						0.000121 (J)
2/19/2025	<0.0002	<0.0002	0.000384	<0.0002	<0.0002	
Mean	0.0001861	0.0001848	0.0002186	0.0001796	0.0001836	0.0001842
Std. Dev.	4.32E-05	4.663E-05	0.000148	5.032E-05	4.016E-05	3.533E-05
Upper Lim.	0.0002	0.0002	0.000384	0.0002	0.0002	0.0002
Lower Lim.	8.3E-05	5E-05	9.8E-05	8.2E-05	0.0001	0.000121

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D	PZ-74I
9/6/2016			<0.01					
9/8/2016	<0.01	<0.001						
11/17/2016	<0.01							
11/18/2016		<0.001						
11/21/2016			<0.01					
2/21/2017	<0.01	<0.001						
2/22/2017			<0.01					
6/13/2017	<0.01	<0.001						
6/14/2017			<0.01					
9/27/2017	<0.01	<0.001	<0.01					
2/14/2018	<0.01	<0.001	<0.01					
3/6/2018				<0.001	<0.01			
5/1/2018				<0.001	<0.01			
6/26/2018	<0.01							
6/27/2018		<0.001			<0.01			
6/28/2018			<0.01	<0.001				
7/31/2018				<0.001				
8/1/2018					<0.01			
8/10/2018						0.0032 (J)		
8/23/2018				<0.001	<0.01	0.005 (J)		
9/19/2018				<0.001	<0.01	0.0061 (J)		
10/29/2018				<0.001	<0.01	0.0065 (J)		
11/28/2018				<0.001	<0.01	0.0027 (J)		
12/18/2018	<0.01		<0.01					
12/19/2018					<0.01			
12/20/2018		<0.001		<0.001		<0.01		
1/17/2019						<0.01		
2/13/2019						<0.01		
8/27/2019	<0.01		<0.01					
8/28/2019		<0.001		<0.001	<0.01			
8/29/2019						<0.01		
10/15/2019	<0.01							
10/16/2019					<0.01	<0.01		
12/3/2019				<0.001				
12/4/2019		<0.001	<0.01					
8/19/2020	0.00081 (J)	<0.001	0.00078 (J)					
8/20/2020				0.00076 (J)	<0.01	0.0012 (J)		
9/15/2020	0.0008 (J)							
9/16/2020		<0.001	0.0022 (J)	<0.001	<0.01			
9/17/2020						0.0007 (J)		
3/2/2021	0.001 (J)			<0.001	<0.01			
3/3/2021		<0.001	<0.01					
3/4/2021						0.001 (J)		
9/23/2021				<0.001	<0.01			
9/28/2021	0.00089 (J)	<0.001	0.001 (J)			<0.01		
2/2/2022	0.0011 (J)		0.0012 (J)	<0.001	<0.01	<0.01		
2/4/2022		<0.001						
8/23/2022	0.00105				0.000296 (J)			
8/24/2022			0.00141					
8/25/2022		<0.001		0.000424 (J)		0.000471 (J)		
1/25/2023		<0.001		0.000545 (J)		0.000609 (J)		
1/26/2023	0.00092 (J)		0.0014		0.00027 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-52I	PZ-68D	PZ-74I
2/1/2023							0.0111	
6/6/2023								0.00276
8/22/2023			0.00111					
8/23/2023							0.00625	
8/24/2023	0.00141	<0.001		0.000356 (J)	0.000296 (J)	0.000782 (J)		0.000597 (J)
1/30/2024			0.00137		0.00028 (J)			
1/31/2024	0.0014	0.000213 (J)						
2/1/2024				<0.001		0.000564 (J)	0.00598	<0.001
8/27/2024		0.000211 (J)						<0.001
8/28/2024			0.00123		0.000252 (J)	0.000691 (J)		
8/29/2024	0.00123			0.000207 (J)			0.00702	
2/18/2025					0.000295 (J)			<0.001
2/19/2025	0.00082 (J)	<0.001	0.00128	0.000261 (J)		0.000826 (J)	0.00612	
Mean	0.005306	0.000925	0.005856	0.0008433	0.007349	0.004778	0.007294	0.001271
Std. Dev.	0.004589	0.000237	0.00446	0.00028	0.00443	0.004172	0.002165	0.0008503
Upper Lim.	0.01	0.001	0.01	0.001	0.01	0.01	0.0111	0.00276
Lower Lim.	0.00092	0.000213	0.00123	0.00076	0.000296	0.0007	0.00598	0.000597

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
9/6/2016				<0.005				
9/8/2016	<0.005	0.0043 (J)	0.0039 (J)		<0.01			
11/17/2016	<0.005							
11/18/2016		0.0047 (J)						
11/21/2016			0.0058 (J)	<0.005	<0.01			
2/21/2017	<0.005	0.0025 (J)						
2/22/2017			0.005 (J)	<0.005	0.0017 (J)			
6/13/2017	<0.005	0.0036 (J)						
6/14/2017			0.0074 (J)	0.0045 (J)	<0.01			
9/27/2017	<0.005	0.004 (J)	0.0068 (J)	0.0034 (J)	0.0019 (J)			
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.01			
3/6/2018						<0.005	<0.005	<0.005
5/1/2018						<0.005	<0.005	<0.005
6/26/2018	<0.005							
6/27/2018		0.0014 (J)	<0.005		0.0017 (J)			<0.005
6/28/2018				<0.005			<0.005	
7/31/2018							<0.005	
8/1/2018								0.0015 (J)
8/23/2018							<0.005	0.0024 (J)
9/19/2018							<0.005	0.002 (J)
10/29/2018							<0.005	<0.005
11/28/2018							<0.005	<0.005
12/18/2018	<0.005		<0.005	<0.005				
12/19/2018					0.0059 (J)			<0.005
12/20/2018		<0.005					<0.005	
8/27/2019	<0.005			0.0038 (J)	0.057			
8/28/2019		0.0017 (J)	<0.005				<0.005	<0.005
10/15/2019	<0.005							
10/16/2019			<0.005					0.0017 (J)
12/3/2019							0.0029 (J)	
12/4/2019		0.0036 (J)		0.0018 (J)	0.1			
3/4/2020	<0.005	0.0022 (J)	0.0018 (J)					<0.005
3/5/2020				<0.005	0.1		<0.005	
5/12/2020					0.0989			
8/19/2020	<0.005	<0.005	<0.005	<0.005	0.099			
8/20/2020							<0.005	0.0016 (J)
9/15/2020	<0.005		<0.005					
9/16/2020		0.0042 (J)		<0.005	0.12		<0.005	0.002 (J)
3/2/2021	0.0021 (J)						<0.005	0.0028 (J)
3/3/2021		0.0031 (J)	0.0042 (J)	<0.005				
3/4/2021					0.14			
9/23/2021							<0.005	<0.005
9/28/2021	<0.005	<0.005	0.0022 (J)	<0.005	0.13	<0.005		
2/2/2022	<0.005			<0.005	0.21	<0.005	<0.005	<0.005
2/3/2022			<0.005					
2/4/2022		<0.005						
8/23/2022	<0.005							<0.005
8/24/2022			<0.005	<0.005				
8/25/2022		<0.005			0.218	<0.005	<0.005	
1/24/2023					0.198			
1/25/2023		<0.005				<0.005	<0.005	
1/26/2023	<0.005		<0.005	<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-44	BRGWC-45	BRGWC-47
5/30/2023					0.189			
8/22/2023				<0.005	0.21			
8/23/2023						<0.005		
8/24/2023	<0.005	<0.005	<0.005				<0.005	<0.005
1/30/2024				<0.005	0.17	<0.005		<0.005
1/31/2024	<0.005	<0.005	0.00229 (J)					
2/1/2024							<0.005	
8/27/2024		<0.005	<0.005			<0.005		
8/28/2024				<0.005	0.0945			<0.005
8/29/2024	<0.005						<0.005	
2/18/2025								<0.005
2/19/2025	0.00217 (J)	0.00309 (J)	0.0045 (J)	0.00316 (J)	0.0782	0.00202 (J)	0.00237 (J)	
Mean	0.00474	0.004018	0.004722	0.004621	0.1383	0.004702	0.004794	0.004087
Std. Dev.	0.0008431	0.001197	0.0013	0.0008371	0.05314	0.0009424	0.000686	0.001432
Upper Lim.	0.005	0.005	0.005	0.005	0.1729	0.005	0.005	0.005
Lower Lim.	0.00217	0.0031	0.0045	0.0045	0.1037	0.005	0.0029	0.0024

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-52I	PZ-68D	PZ-74I	PZ-75I
8/10/2018	<0.005			
8/23/2018	<0.005			
9/19/2018	<0.005			
10/29/2018	<0.005			
11/28/2018	<0.005			
12/20/2018	<0.005			
1/17/2019	<0.005			
2/13/2019	<0.005			
8/29/2019	<0.005			
10/16/2019	<0.005			
3/4/2020	<0.005			
8/20/2020	<0.005			
9/17/2020	<0.005			
3/4/2021	<0.005			
9/28/2021	<0.005			
2/2/2022	<0.005			
8/25/2022	<0.005			
1/25/2023	<0.005			
2/1/2023		<0.005		
6/6/2023			0.0237	
7/5/2023				0.0732
8/23/2023		<0.005		
8/24/2023	<0.005		0.0423	0.0696
2/1/2024	<0.005	<0.005	0.0489	0.0954
8/27/2024			0.0597	0.106
8/28/2024	<0.005			
8/29/2024		<0.005		
2/18/2025			0.0622	0.122
2/19/2025	0.00198 (J)	0.00205 (J)		
Mean	0.004863	0.00441	0.04736	0.09324
Std. Dev.	0.0006439	0.001319	0.01549	0.02211
Upper Lim.	0.005	0.005	0.07332	0.1303
Lower Lim.	0.00198	0.00205	0.0214	0.05619

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 3:46 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

	BRGWC-29I
9/8/2016	<0.002
11/21/2016	0.0002 (J)
2/22/2017	0.0002 (J)
6/14/2017	0.0002 (J)
9/27/2017	0.0002 (J)
2/14/2018	0.00018 (J)
6/27/2018	0.00017 (J)
12/18/2018	0.00017 (J)
8/28/2019	0.00017 (J)
10/16/2019	0.00017 (J)
3/4/2020	0.00016 (J)
8/19/2020	0.00016 (J)
9/15/2020	0.00016 (J)
3/3/2021	0.00018 (J)
9/28/2021	<0.002
2/3/2022	<0.002
8/24/2022	<0.002
1/26/2023	<0.002
8/24/2023	<0.002
1/31/2024	<0.002
8/27/2024	<0.002
2/19/2025	<0.002
Mean	0.0009236
Std. Dev.	0.0009167
Upper Lim.	0.002
Lower Lim.	0.00017

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

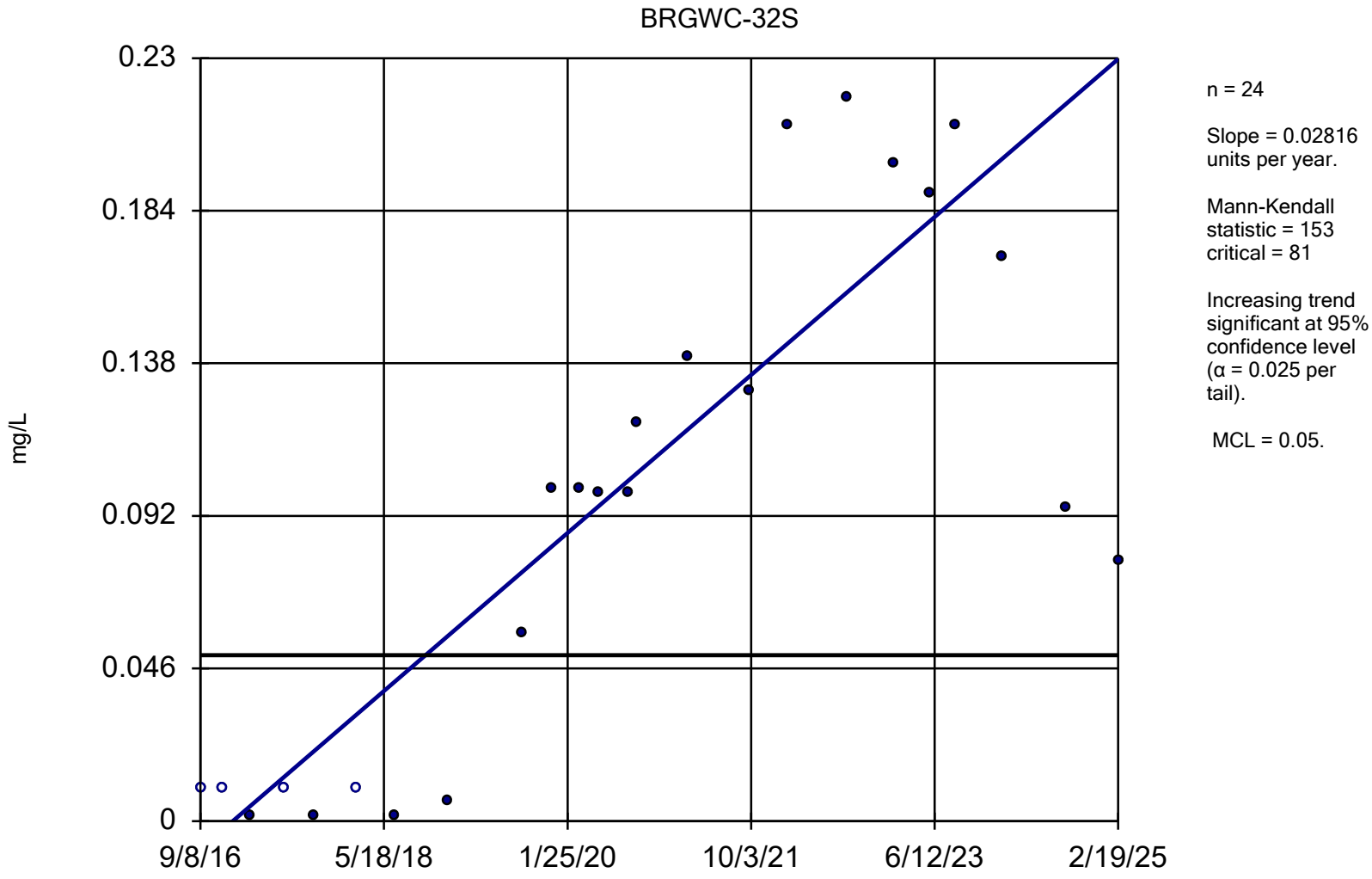
Selenium BRGWC-32S Trend Test - All/Significant Result

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	**BRGWC-32S**	**0.02816**	**153**	**81**	**Yes**	**24**	**16.67**	**n/a**	**n/a**	**0.05**	**NP**

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Hollow symbols indicate censored values.

Sen's Slope Estimator



Constituent: Selenium Analysis Run 5/20/2025 3:55 PM View: Selenium Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Selenium BRGWC-32S Trend Test Truncated Records - All Result (No Significant)

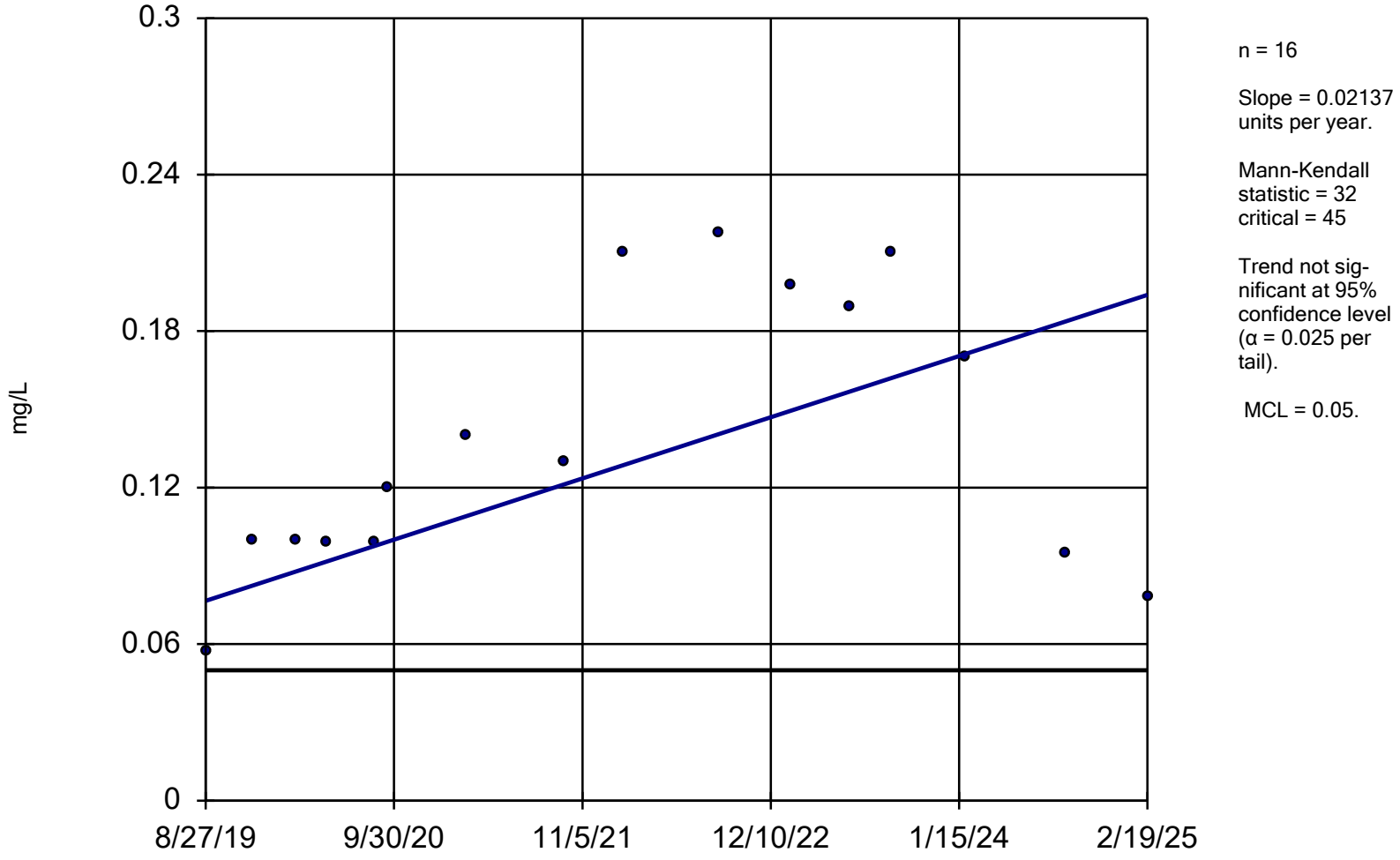
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	BRGWC-32S	0.02137	32	45	No	16	0	n/a	n/a	0.05	NP

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Sen's Slope Estimator

BRGWC-32S



n = 16

Slope = 0.02137 units per year.

Mann-Kendall statistic = 32
critical = 45

Trend not significant at 95% confidence level (α = 0.025 per tail).

MCL = 0.05.

Constituent: Selenium Analysis Run 5/20/2025 3:58 PM View: Selenium Trend Test

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

FIGURE J.

Appendix IV - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:55 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**BRGWA-2I (bg)**	**-0.00005343**	**-81**	**-71**	**Yes**	**22**	**54.55**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002537**	**-153**	**-71**	**Yes**	**22**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00008865**	**-116**	**-66**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0004365**	**-120**	**-71**	**Yes**	**22**	**31.82**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-63I**	**0.006217**	**19**	**15**	**Yes**	**7**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**BRGWC-32S**	**0.02816**	**153**	**81**	**Yes**	**24**	**16.67**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Tests - All Results

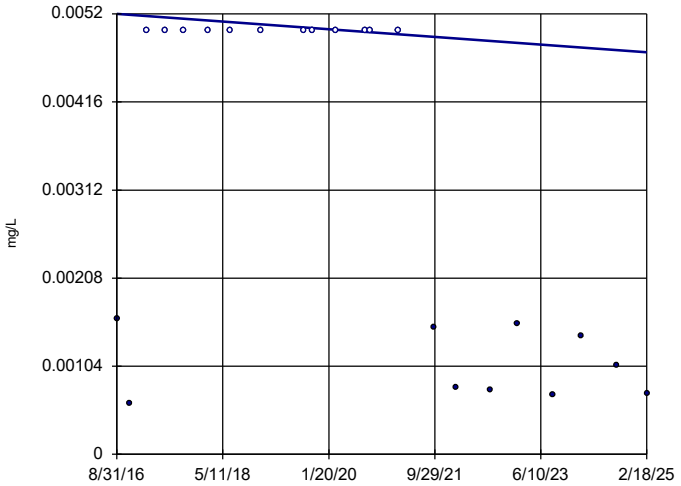
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D Printed 5/20/2025, 3:55 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**BRGWA-2I (bg)**	**-0.00005343**	**-81**	**-71**	**Yes**	**22**	**54.55**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002537**	**-153**	**-71**	**Yes**	**22**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00008865**	**-116**	**-66**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	31	71	No	22	72.73	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	24	71	No	22	77.27	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0004365**	**-120**	**-71**	**Yes**	**22**	**31.82**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-63I**	**0.006217**	**19**	**15**	**Yes**	**7**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	BRGWA-2I (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	0	-15	-71	No	22	40.91	n/a	n/a	0.05	NP
Selenium (mg/L)	**BRGWC-32S**	**0.02816**	**153**	**81**	**Yes**	**24**	**16.67**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	PZ-75I	0.03168	8	10	No	5	0	n/a	n/a	0.05	NP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 22

Slope = -0.00005343 units per year.

Mann-Kendall statistic = -81
critical = -71

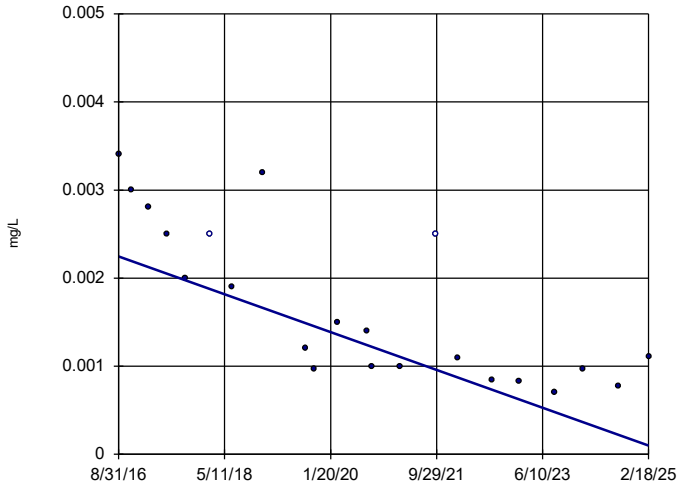
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 22

Slope = -0.0002537 units per year.

Mann-Kendall statistic = -153
critical = -71

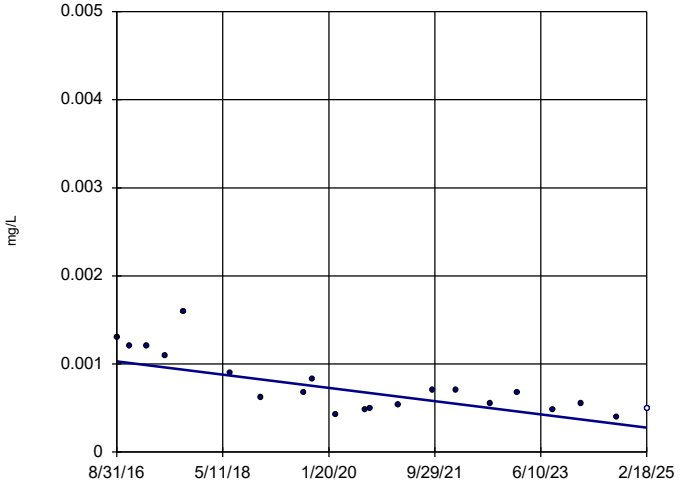
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -0.00008865 units per year.

Mann-Kendall statistic = -116
critical = -66

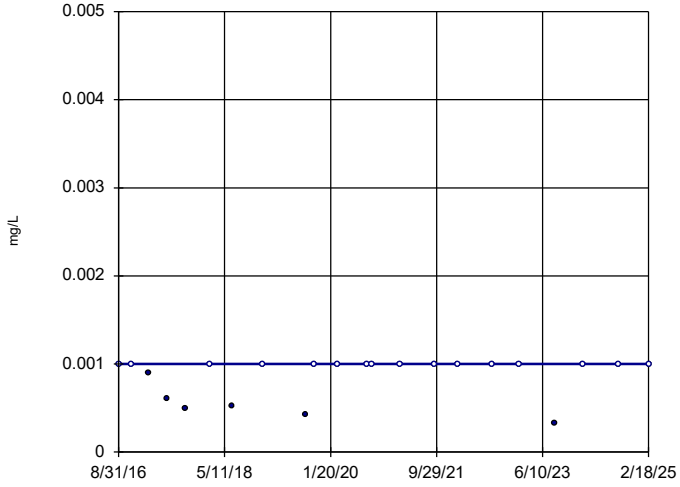
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 31
critical = 71

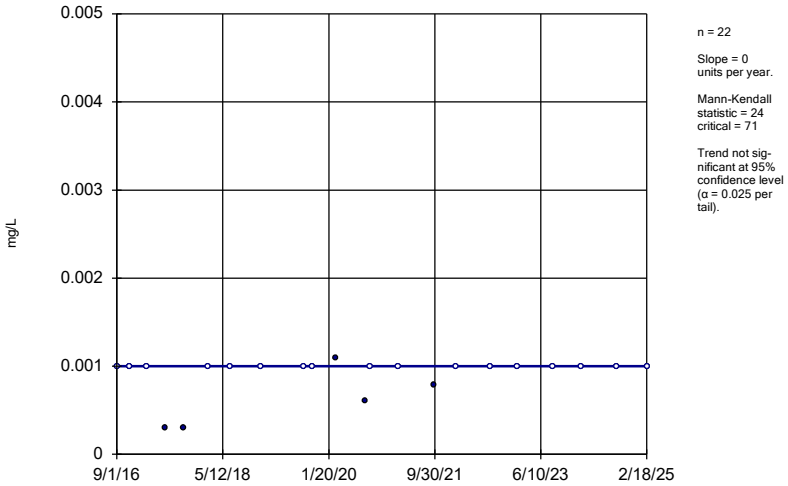
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 24
critical = 71

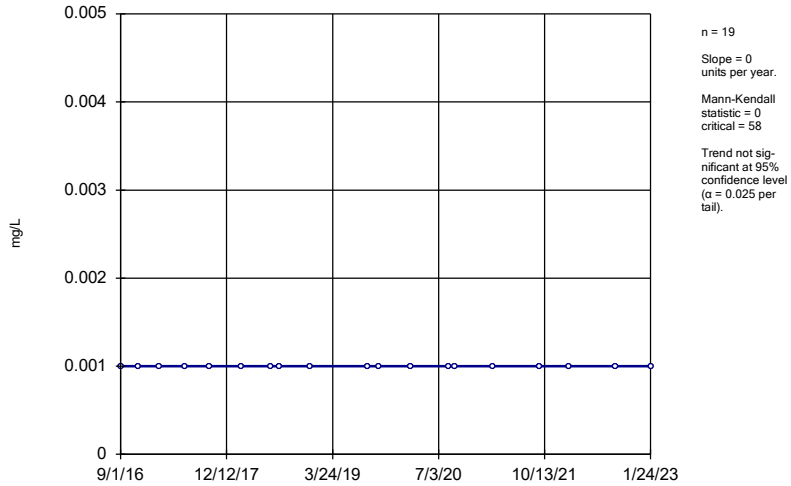
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 58

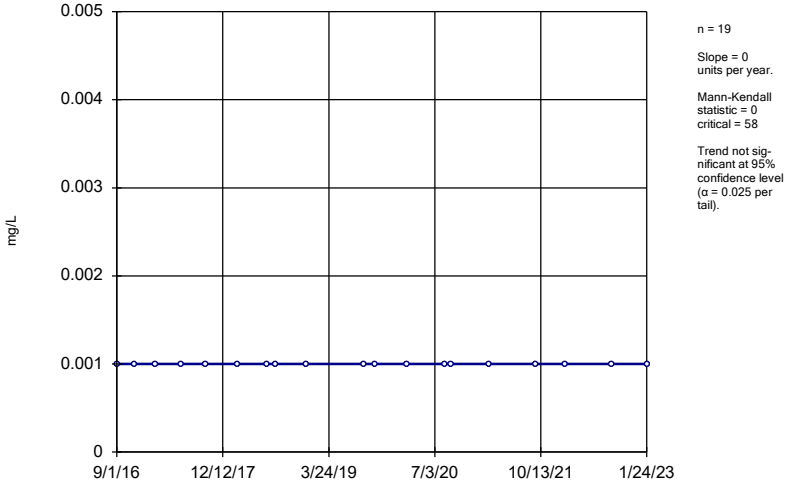
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 58

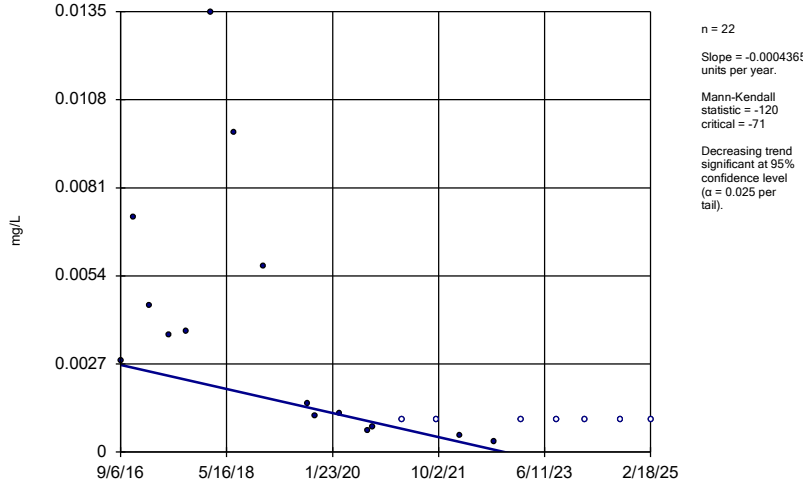
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 22

Slope = -0.0004365
units per year.

Mann-Kendall
statistic = -120
critical = -71

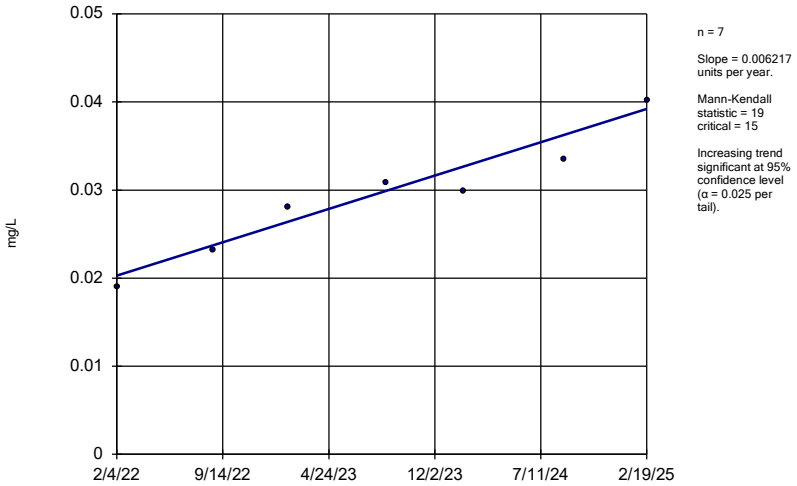
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-63I



n = 7

Slope = 0.006217 units per year.

Mann-Kendall statistic = 19 critical = 15

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests

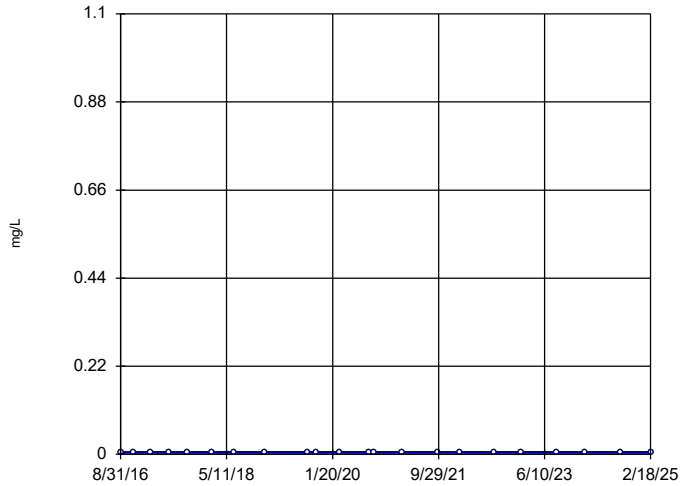
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests

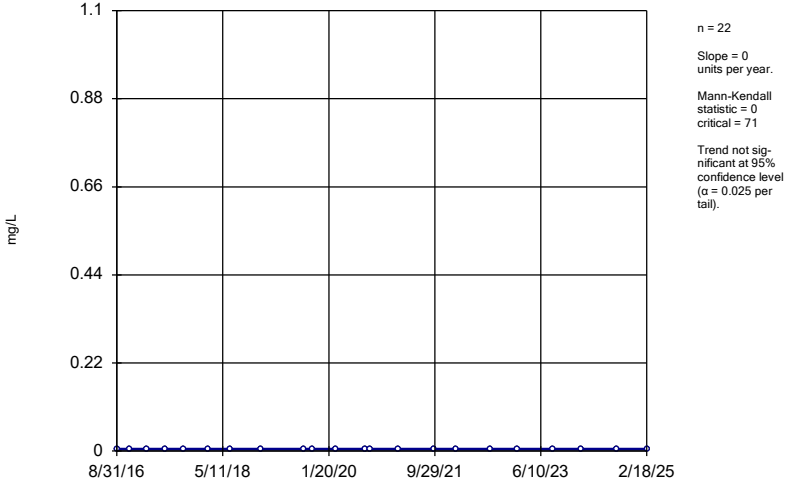
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests

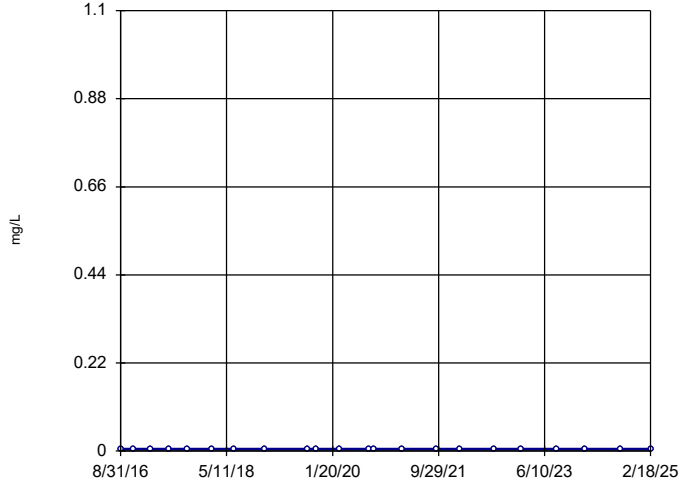
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

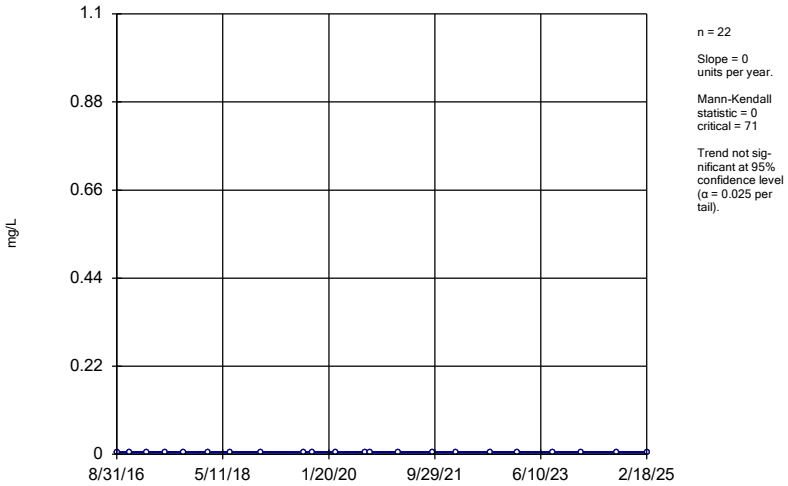
Constituent: Selenium Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests

Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 71

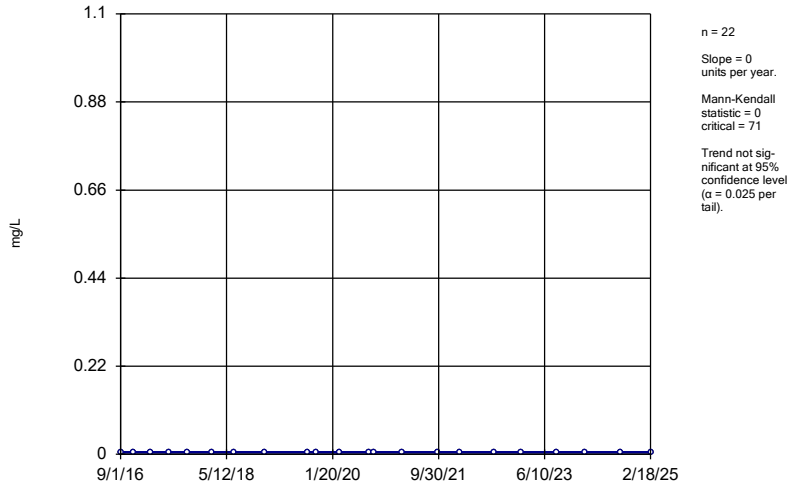
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 71

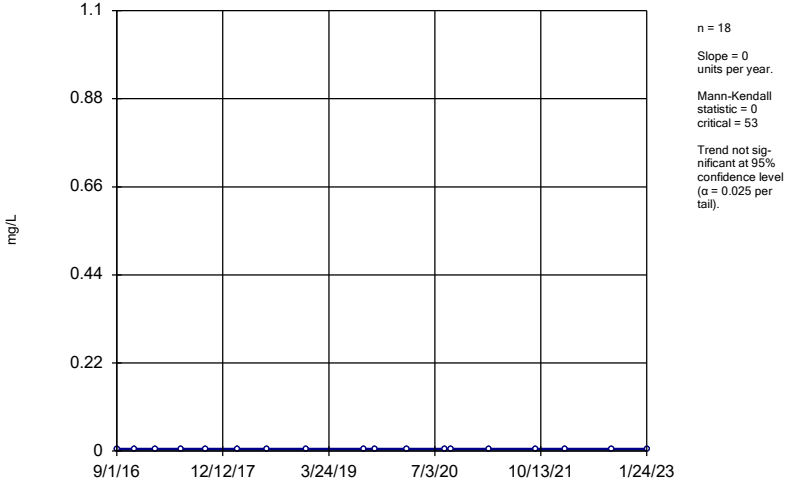
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/20/2025 3:53 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 53

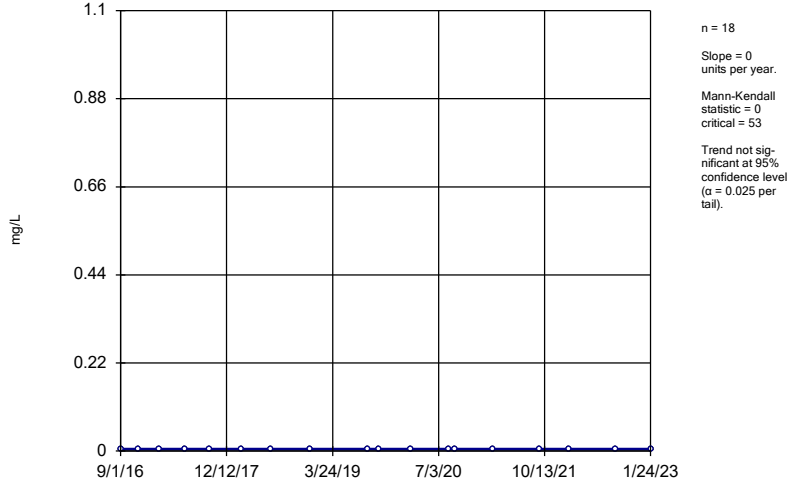
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/20/2025 3:54 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

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Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 53

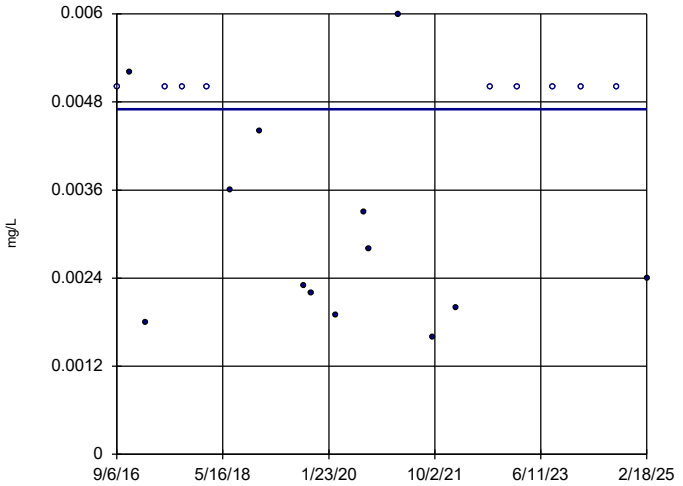
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/20/2025 3:54 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -71

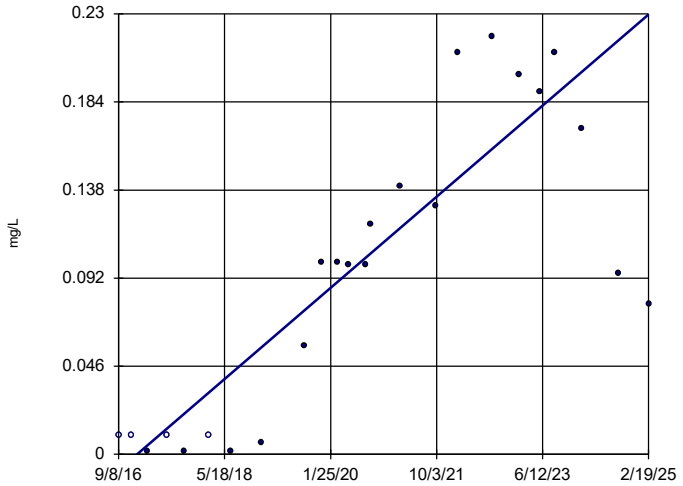
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/20/2025 3:54 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-32S



n = 24

Slope = 0.02816 units per year.

Mann-Kendall statistic = 153
critical = 81

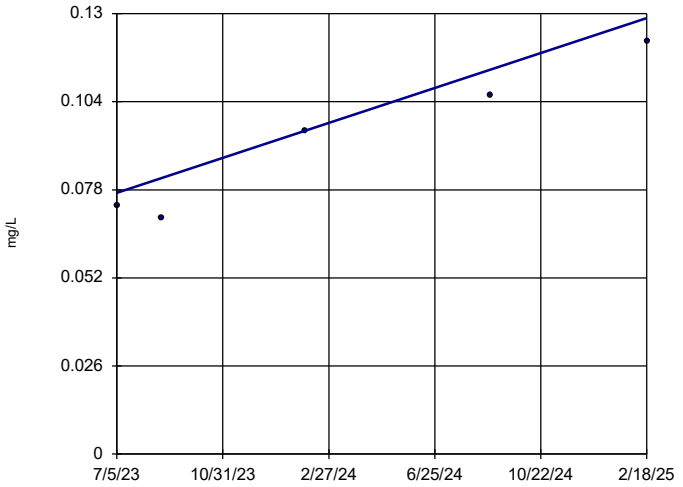
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/20/2025 3:54 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-75I



n = 5

Slope = 0.03168 units per year.

Mann-Kendall statistic = 8
critical = 10

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/20/2025 3:54 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Ponds B,C,D

APPENDIX E

Potable Well Survey

Plant Branch
1078-1074 Milledgeville Rd
Eatonton, GA 31024

Inquiry Number: 07808115.1r
October 31, 2024

The EDR GeoCheck® Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Summary **A-2**

Physical Setting Source Map **A-7**

Physical Setting Source Map Findings **A-8**

Physical Setting Source Records Searched **PSGR-1**

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

PLANT BRANCH
1078-1074 MILLEDGEVILLE RD
EATONTON, GA 31024

TARGET PROPERTY COORDINATES

Latitude (North):	33.202258 - 33° 12' 8.13''
Longitude (West):	83.322819 - 83° 19' 22.15''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	283479.7
UTM Y (Meters):	3675922.0
Elevation:	382 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33083-B3 LAKE SINCLAIR WEST, GA
Version Date:	1972

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

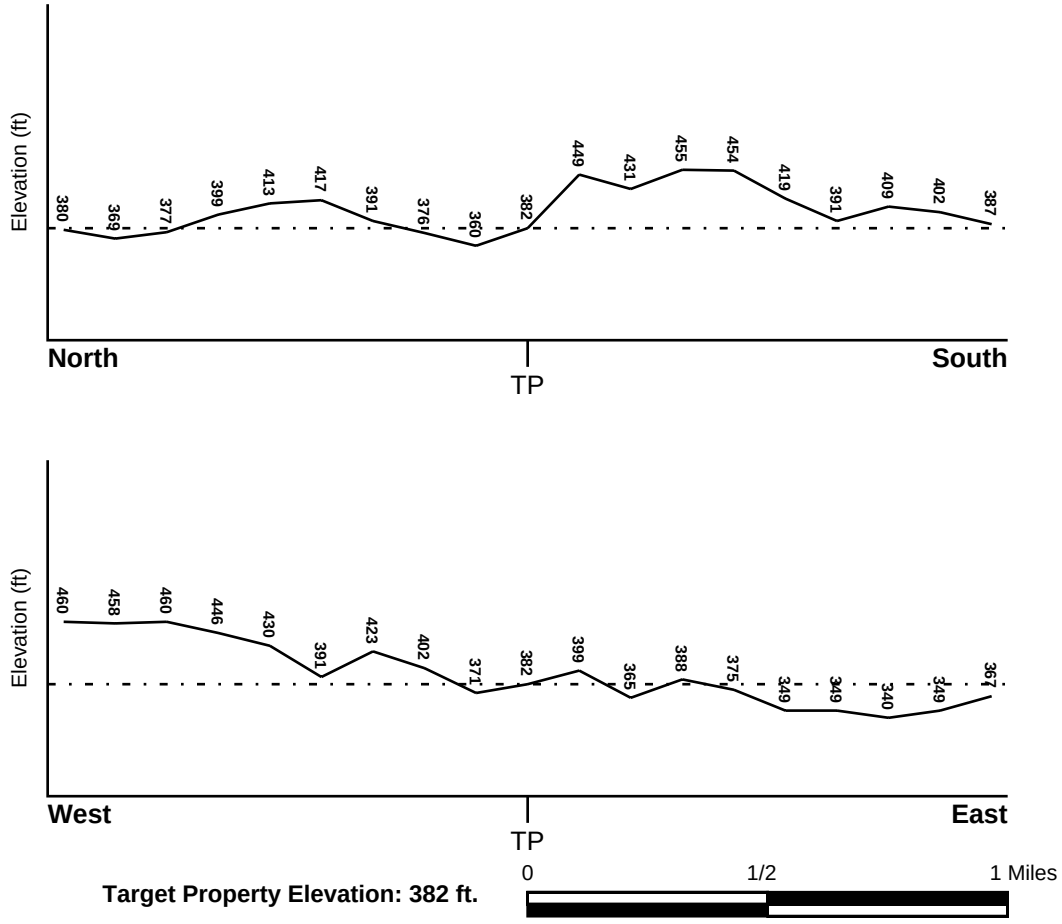
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 382 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
13009C0050D	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LAKE SINCLAIR WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category:	Metamorphic Rocks
System:	Pennsylvanian		
Series:	Felsic paragneiss and schist		
Code:	mm1 *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	CECIL
Soil Surface Texture:	sandy clay loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	7 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.50 Min: 4.50
2	7 inches	11 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
3	11 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
4	50 inches	75 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam
loam
fine sandy loam

Surficial Soil Types: sandy loam
loam
fine sandy loam

Shallow Soil Types: clay
sandy clay
gravelly - loam

Deeper Soil Types: loamy fine sand
sandy loam
weathered bedrock

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000262392	1 - 2 Miles NNE
A2	USGS40000262391	1 - 2 Miles NNE
3	USGS40000262403	1 - 2 Miles NNE
B4	USGS40000262292	1 - 2 Miles WSW
5	USGS40000262254	1 - 2 Miles SW
B6	USGS40000262290	1 - 2 Miles WSW
9	USGS40000262386	1 - 2 Miles NE
10	USGS40000262278	1 - 2 Miles WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

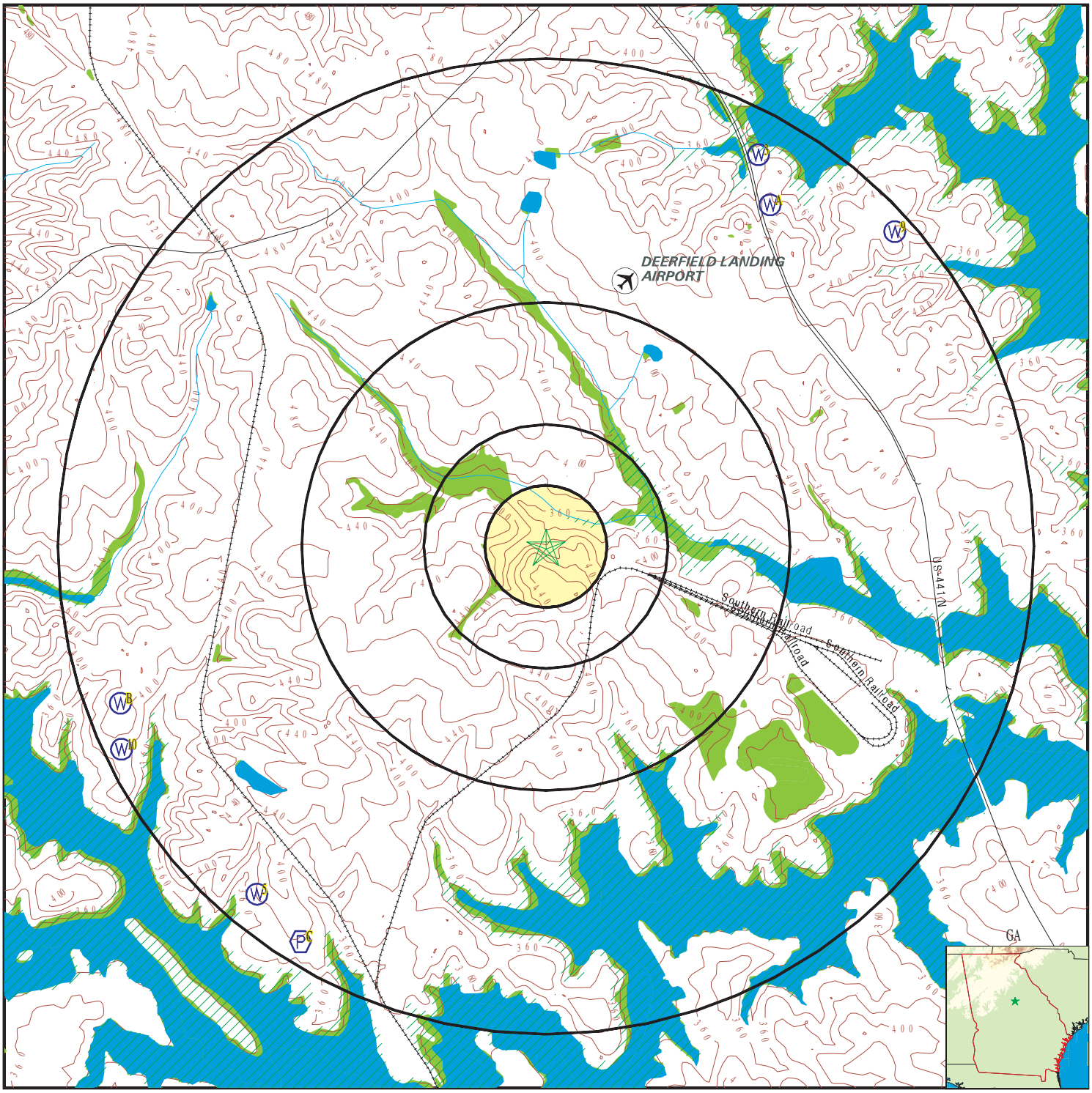
MAP ID	WELL ID	LOCATION FROM TP
C7	GA2370006	1 - 2 Miles SSW
C8	GA2370008	1 - 2 Miles SSW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 07808115.1r



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

SITE NAME:	Plant Branch	CLIENT:	Geosyntec Consultants
ADDRESS:	1078-1074 Milledgeville Rd Eatonton GA 31024	CONTACT:	Tristan Halterman
LAT/LONG:	33.202258 / 83.322819	INQUIRY #:	07808115.1r
		DATE:	October 31, 2024 7:56 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NNE
1 - 2 Miles
Higher

FED USGS **USGS40000262392**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z016	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

A2
NNE
1 - 2 Miles
Higher

FED USGS **USGS40000262391**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z017	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

3
NNE
1 - 2 Miles
Lower

FED USGS **USGS40000262403**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z013	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

B4
WSW
1 - 2 Miles
Higher

FED USGS **USGS40000262292**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z021	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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5
SW
1 - 2 Miles
Lower

FED USGS **USGS40000262254**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z020	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

B6
WSW
1 - 2 Miles
Higher

FED USGS **USGS40000262290**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z023	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

C7
SSW
1 - 2 Miles
Lower

FRDS PWS **GA2370006**

Epa region:	04	State:	GA
Pwsid:	GA2370006	Pwsname:	PINE FOREST SUBDIVISION
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13237
Status:	Closed	Retpopsrvd:	1003
Pwssvcconn:	388	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	ARCHEBELLE, DONNA	Contactorgname:	ARCHEBELLE, DONNA
Contactphone:	706-485-5252	Contactaddress1:	POB 3639
Contactaddress2:	Not Reported	Contactcity:	EATONTON
Contactstate:	GA	Contactzip:	31024-3639
Pwsactivitycode:	I		

Pwsid:	GA2370006	Facid:	15132
Facname:	PARCEL B/451 AVANT RD PLANT #4		

Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

Pwsid:	GA2370006	Facid:	16589
Facname:	160 BEAR CREEK EAST PLANT #5		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

Pwsid:	GA2370006	Facid:	16646
Facname:	143 EDGEWATER DRIVE PLANT #6		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

Pwsid:	GA2370006	Facid:	3517
Facname:	L525/308 LITTLE RIVER TRAILPLANT #3		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

PWS ID:	GA2370006	PWS name:	PINE FOREST SUBDIVISION
Address:	POB 390	Care of:	GREAT SOUTHEAST UTILITY CO.
City:	GREENSBORO	State:	GA
Zip:	306420390	Owner:	PINE FOREST SUBDIVISION
Source code:	Ground water	Population:	629

PWS ID:	GA2370006	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	PINE FOREST SUBDIVISION
PWS type code:	C	Retail population served:	1003
Contact:	ARCHEBELLE, DONNA	Contact address:	663 GODFREY RD.
Contact address:	EATONTON	Contact city:	GA
Contact state:	31	Contact zip:	706-485-52
Contact telephone:	Not Reported		

County:	PUTNAM	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	HYPOCHLORINATION, POST
Population:	629		

PWS ID:	GA2370006	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000564	System name:	PINE FOREST SUBDIVISION
System address:	GREAT SE UTILITY COMPANY	System address:	POB 390
System city:	GREENSBORO	System state:	GA
System zip:	306420390		

Population served:	501 - 1,000 Persons	Treatment:	Treated

Latitude:	335554	Longitude:	0832024

Latitude:	331044	Longitude:	0832025

State:	GA	Latitude degrees:	33
Latitude minutes:	10	Latitude seconds:	44.0000
Longitude degrees:	83	Longitude minutes:	20
Longitude seconds:	25.0000		

State:	GA	Latitude degrees:	33
Latitude minutes:	19	Latitude seconds:	39.0000

Longitude degrees:	83	Longitude minutes:	21
Longitude seconds:	6.0000		

Violation id:	20101	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2000
Cmp edt:	12/31/2000		

Violation id:	20301	Orig code:	S
State:	GA	Violation Year:	1997
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/1997
Cmp edt:	Not Reported		

Violation id:	20401	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2000
Cmp edt:	Not Reported		

Violation id:	20604	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		

Violation id:	20705	Orig code:	S
State:	GA	Violation Year:	2003
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2003
Cmp edt:	Not Reported		

Violation id:	20805	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2005
Cmp edt:	Not Reported		

Violation id:	21008	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR

Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	Not Reported		

Violation id:	21109	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	Not Reported		

Violation id:	21209	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	07/31/2009		

Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St No addtl Formal Action needed		
Enforcement Category:	Informal		

Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal

Violation ID:	20301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal

Violation ID:	20301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal

Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/24/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	07/22/2003
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal

Violation ID:	20604	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/23/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	20604	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/01/2004

Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/27/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/14/2005
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/01/2004
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/01/2004
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/08/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/01/2005
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	21008	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/09/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	21109	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/05/2009
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	21109	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/07/2009
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	21209	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	21209	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20101
Contaminant:	Nitrate	Violation type:	3
Compliance start date:	1/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	9/6/2001 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	0		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20101
Contaminant:	Nitrate	Violation type:	3
Compliance start date:	1/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	9/6/2001 0:00:00	Enforcement action:	State Public Notif Received

Violation measurement: 0

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Nitrate
Compliance start date: 1/1/2000 0:00:00
Enforcement date: 9/6/2001 0:00:00
Enforcement action: State No Additional Formal Action Needed
Violation measurement: 0
Population served: 1003
Violation ID: 20101
Violation type: 3
Compliance end date: 12/31/2000 0:00:00

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/1997 0:00:00
Enforcement date: 9/20/2001 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20301
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 12/31/2025 0:00:00
Enforcement action: State Intentional no-action

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2000 0:00:00
Enforcement date: 7/22/2003 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20401
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 7/24/2001 0:00:00
Enforcement action: State Intentional no-action

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2000 0:00:00
Enforcement date: 7/24/2001 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20401
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 7/24/2001 0:00:00
Enforcement action: State Compliance Achieved

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2004 0:00:00
Enforcement date: 7/1/2004 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20604
Violation type: 71
Compliance end date: 7/23/2004 0:00:00
Enforcement action: State Intentional no-action

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2004 0:00:00
Enforcement date: 7/23/2004 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20604
Violation type: 71
Compliance end date: 7/23/2004 0:00:00
Enforcement action: State Compliance Achieved

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2003 0:00:00
Enforcement date: 12/1/2004 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20705
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 7/27/2004 0:00:00
Enforcement action: State Violation/Reminder Notice

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2003 0:00:00
Enforcement date: 12/1/2004 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20705
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 7/27/2004 0:00:00
Enforcement action: State Public Notif Requested

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Population served: 1003
Violation ID: 20705
Violation type: Follow-up and Routine Tap Sampling

Compliance start date:	10/1/2003 0:00:00	Compliance end date:	7/27/2004 0:00:00
Enforcement date:	7/14/2005 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20705
Contaminant:	Lead & Copper Rule	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2003 0:00:00	Compliance end date:	7/27/2004 0:00:00
Enforcement date:	7/27/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20805
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/8/2005 0:00:00
Enforcement date:	7/1/2005 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20805
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/8/2005 0:00:00
Enforcement date:	7/8/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	21008
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	12/31/2025 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		

C8
SSW
1 - 2 Miles
Lower

FRDS PWS **GA2370008**

Epa region:	04	State:	GA
Pwsid:	GA2370008	Pwsname:	TALL TIMBERS-OAK OPENINGS
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13237
Status:	Closed	Retpopsrvd:	733
Pwssvcconn:	279	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	ARCHEBELLE, DONNA	Contactorgname:	ARCHEBELLE, DONNA
Contactphone:	706-485-5252	Contactaddress1:	POB 3639
Contactaddress2:	Not Reported	Contactcity:	EATONTON
Contactstate:	GA	Contactzip:	31024-3639
Pwsactivitycode:	I		

Pwsid:	GA2370008	Facid:	15117
Facname:	WELLS 2 & 3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	GA2370008	Facid:	15126
Facname:	116 BLUEGILL RD/L#1 - WELL #5 PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

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Pwsid:	GA2370008	Facid:	21184
Facname:	308 BLUEGILL ROAD-LOT 215 WELL #6 PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

PWS ID:	GA2370008	PWS name:	TALL TIMBERS-OAK OPENINGS
Address:	POB 390	Care of:	GREAT SOUTHEAST UTILITY CO.
City:	GREENSBORO	State:	GA
Zip:	306420390	Owner:	TALL TIMBERS-OAK OPENINGS
Source code:	Ground water	Population:	465

PWS ID:	GA2370008	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	PUTNAM
Source:	Ground water	Treatment Objective:	DISINFECTION
Process:	HYPOCHLORINATION, POST	Population:	465

PWS ID:	GA2370008	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000465	System name:	TALL TIMBERS-OAK OPENINGS
System address:	GREAT SE UTILITY COMPANY	System address:	POB 390
System city:	GREENSBORO	System state:	GA
System zip:	306420390		

Population served:	101 - 500 Persons	Treatment:	Treated

Latitude:	335554	Longitude:	0832024

Latitude:	331042	Longitude:	0832025

State:	GA	Latitude degrees:	33
Latitude minutes:	10	Latitude seconds:	42.0000
Longitude degrees:	83	Longitude minutes:	20
Longitude seconds:	25.0000		

Violation id:	10101	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2000
Cmp edt:	12/31/2000		

Violation id:	10201	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2000
Cmp edt:	12/31/2000		

Violation id:	10301	Orig code:	S
State:	GA	Violation Year:	1995
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/1995

Cmp edt:	Not Reported		
Violation id:	10501	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2000
Cmp edt:	Not Reported		
Violation id:	10704	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		
Violation id:	10805	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2005
Cmp edt:	Not Reported		
Violation id:	10906	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2005
Cmp edt:	Not Reported		
Violation id:	11008	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	Not Reported		

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200002	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	Coliform (Tcr)
Violation type:	Max Contaminant Level, Monthly (TCR)		
Violation start date:	070192	Violation end date:	073192
Violation period (months):	001	Violation awareness date:	Not Reported
Major violator:	Not Reported	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported
Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St No addtl Formal Action needed		
Enforcement Category:	Informal		

Violation ID: 10101 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/06/2001
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10101 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 05/15/2001
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10101 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 05/15/2001
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 10101 Orig Code: S
Enforcemnt FY: 2002 Enforcement Action: 10/03/2001
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10201 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/06/2001
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 10201 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/06/2001
Enforcement Detail: St No addtl Formal Action needed
Enforcement Category: Informal

Violation ID: 10201 Orig Code: S
Enforcemnt FY: 2002 Enforcement Action: 10/03/2001
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10201 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/06/2001
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10301 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/20/2001
Enforcement Detail: St Intentional no-action Enforcement Category: Informal

Violation ID: 10501 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 08/17/2001
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10501 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 07/22/2003
Enforcement Detail: St Intentional no-action Enforcement Category: Informal

Violation ID: 10704 Orig Code: S
Enforcemnt FY: 2004 Enforcement Action: 07/01/2004
Enforcement Detail: St Intentional no-action Enforcement Category: Resolving

Violation ID: 10704 Orig Code: S
Enforcemnt FY: 2004 Enforcement Action: 07/23/2004
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10805 Orig Code: S
Enforcemnt FY: 2005 Enforcement Action: 07/08/2005
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10805 Orig Code: S
Enforcemnt FY: 2005 Enforcement Action: 07/01/2005

Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/12/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/07/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/17/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/07/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11008	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/09/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

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9
NE **FED USGS** **USGS40000262386**
1 - 2 Miles
Higher

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z015	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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10
WSW **FED USGS** **USGS40000262278**
1 - 2 Miles
Higher

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z022	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for PUTNAM County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 31024

Number of sites tested: 10

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.190 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Georgia GIS Clearinghouse
Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations
Georgia Department of Public Health
Telephone: (404) 657-2700
A listing of Private Water Well locations

Georgia Public Supply Wells
Source: Georgia Department of Community Affairs
Telephone: 404-894-0127

USGS Georgia Water Wells
Source: USGS, Georgia District Office
Telephone: 770-903-9100

DNR Managed Lands
Source: Department of Natural Resources
Telephone: 706-557-3032
This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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